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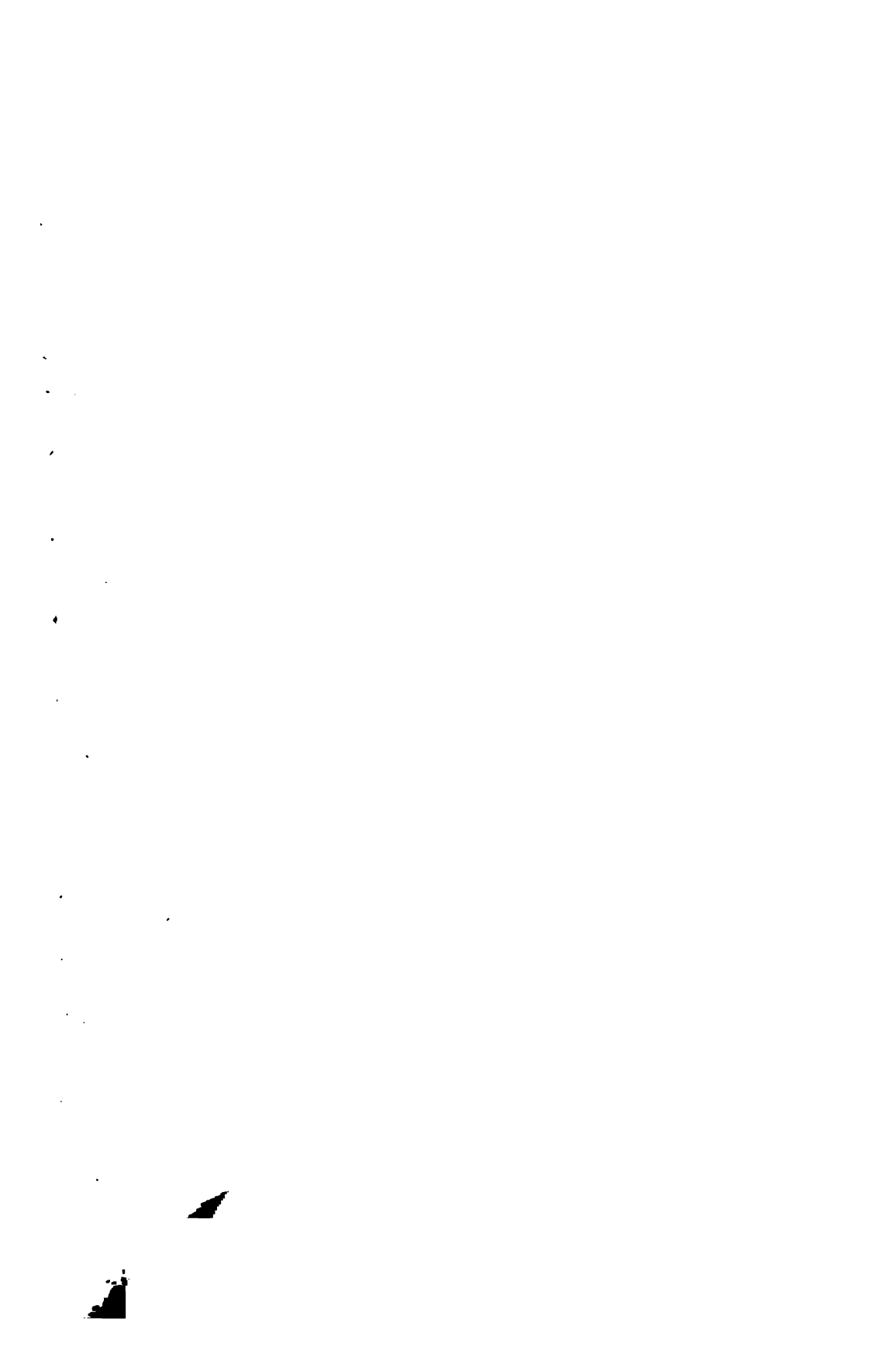
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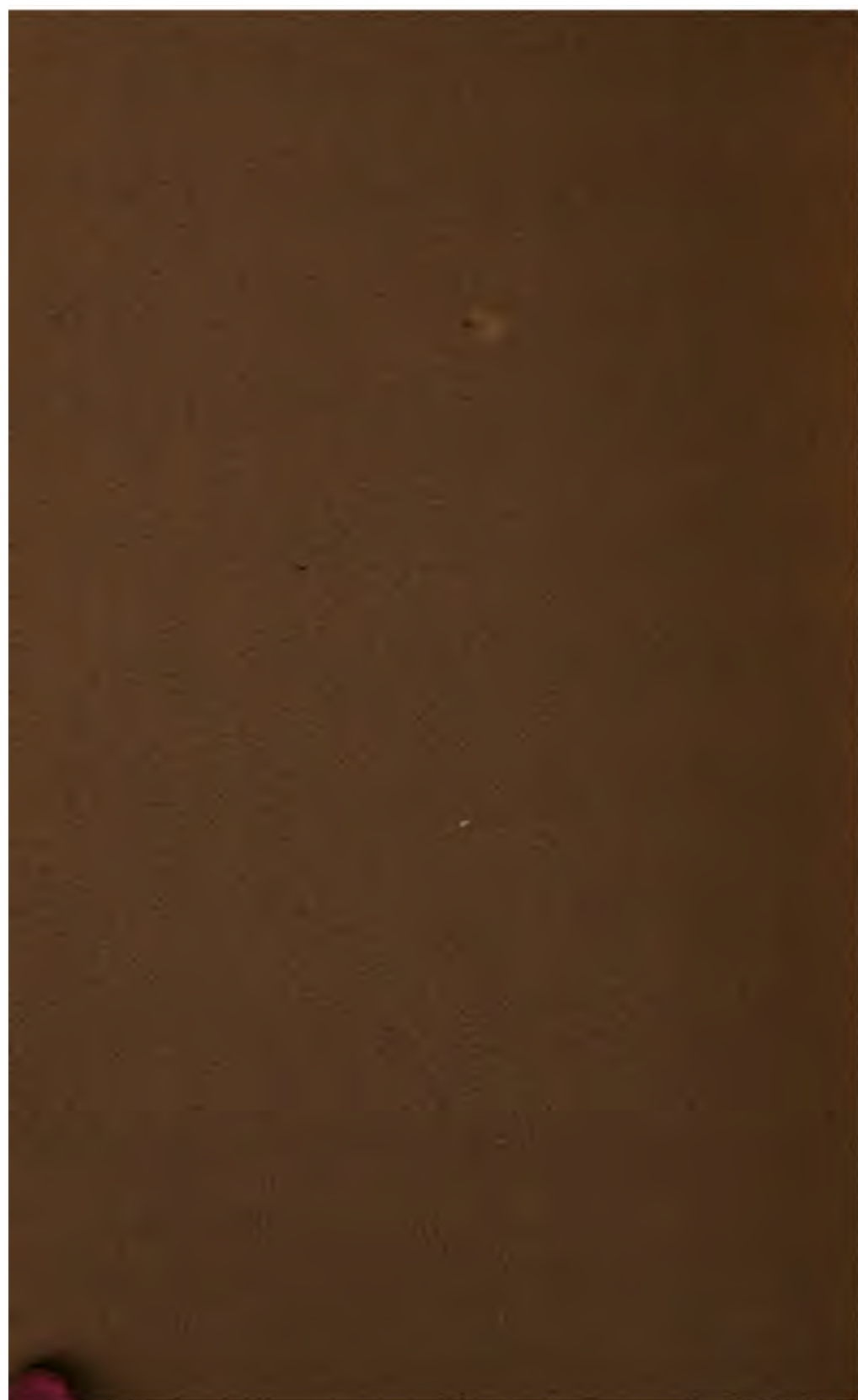
TENTH
ANNUAL REPORT



Commissioners
of Parks and
Boulevards
City of Detroit

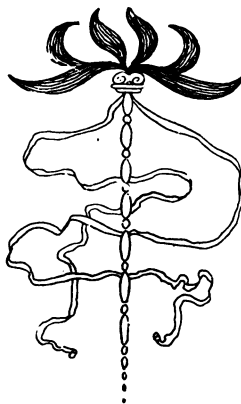


JULY FIRST, 1896, TO
JUNE THIRTIETH, A.
1897, A. INCLUSIVE





ENTH ANNUAL REPORT OF
THE • COMMISSIONERS • OF
PARKS AND BOULEVARDS
TO THE COMMON COUNCIL
OF THE CITY OF DETROIT, FROM x
JULY FIRST, 1898, TO JUNE THIR-
TIETH, 1899, INCLUSIVE. x x x x



DETROIT, 1899.



THE RICHMOND & BACKUS COMPANY,
PRINTERS AND STATIONERS.

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Commissioners of Parks and Boulevards.

	Term Expires.
P. H. A. BALSLEY, PRESIDENT, -	May 31, 1900
A. W. BLAIN, VICE-PRESIDENT, -	May 31, 1901
EDW. C. VAN LEYEN, - -	May 31, 1902
WILLIAM GEIST, - - -	May 31, 1903

M. P. HURLBUT,
Sec'y and Gen'l Manager.

R. J. CORYELL,
Gen'l Superintendent.





SPANISH BELL AT PALMER PARK.

THE PRIDE OF THE PEOPLE.



WITH EACH YEAR there is a wider and more appreciative acceptance of the fact that Detroit is one of the most delightful cities in which to live, as well as one of the most charming and hospitable in which to visit. For this deserved popularity much must be credited to the attractions so lavishly provided by Nature; but these have been supplemented through art, labor and judicious investment directed by this Commission from the time of its establishment to the present, and the work is a progressive one to be handed from one generation to the next, so long as the City has an existence. Beyond rivalry as a blessing to metropolitan life, Belle Isle Park is recognized the world over; its delights have been proclaimed by thousands of excursionists, tourists, resorters and convention attendants, until it is as well known as the great inland seas themselves. In a brief trip by land or water, it affords a complete transition from the heat, worries and turmoil of the city to all the rest and charm and vigor of the poet's ideal of fairyland. It has been skilfully wrought from the rough, the crowning glory of old forest trees looking down upon labyrinths of driveways, woodland, paths, winding canals, flowering gardens, miniature lakes that sparkle in settings of green, quaint buildings and the grand sweep of the bordering channels that take their separate way to preserve this cherished spot. People this on a bright summer day with a multitude of men, women and children who seek its welcoming enchantment and you realize one of the highest possible conceptions of public money expended for public benefit. While this is at once the most popular and distinctive of our parks, it is but a part of the system that is artistically perfected so far as it has gone, and is perfectly adapted to extension as the growth of the city may demand.

With each year the Boulevard becomes more inviting in appearance, and is a resort for those who enjoy the privileges of a model thoroughfare for driving, wheeling and sight-seeing. It is one of those unusual investments in permanent construction that time enhances in looks and value alike.



Commissioners of Parks and Boulevards,

CITY OF DETROIT.

To the Honorable the Common Council:

GENTLEMEN :



N accordance with the statutory provision, the Commissioners of Parks and Boulevards herewith submit their tenth annual report for the fiscal year just past (July 1, 1898, to June 30, 1899, both days inclusive), setting forth the work that has been accomplished both as to improvements and maintenance, and also showing in detail the receipts and expenditures.

**TENTH ANNUAL
REPORT.**

The Board, as provided by law, is composed of four Commissioners appointed by the Mayor and confirmed by the Common Council one appointed each year to serve from June 1 for a term of four years.

ORGANIZATION.

The annual meeting of the Board for the election of a President and Vice-President, is held on the first regular meeting day of the Board in June of each year.

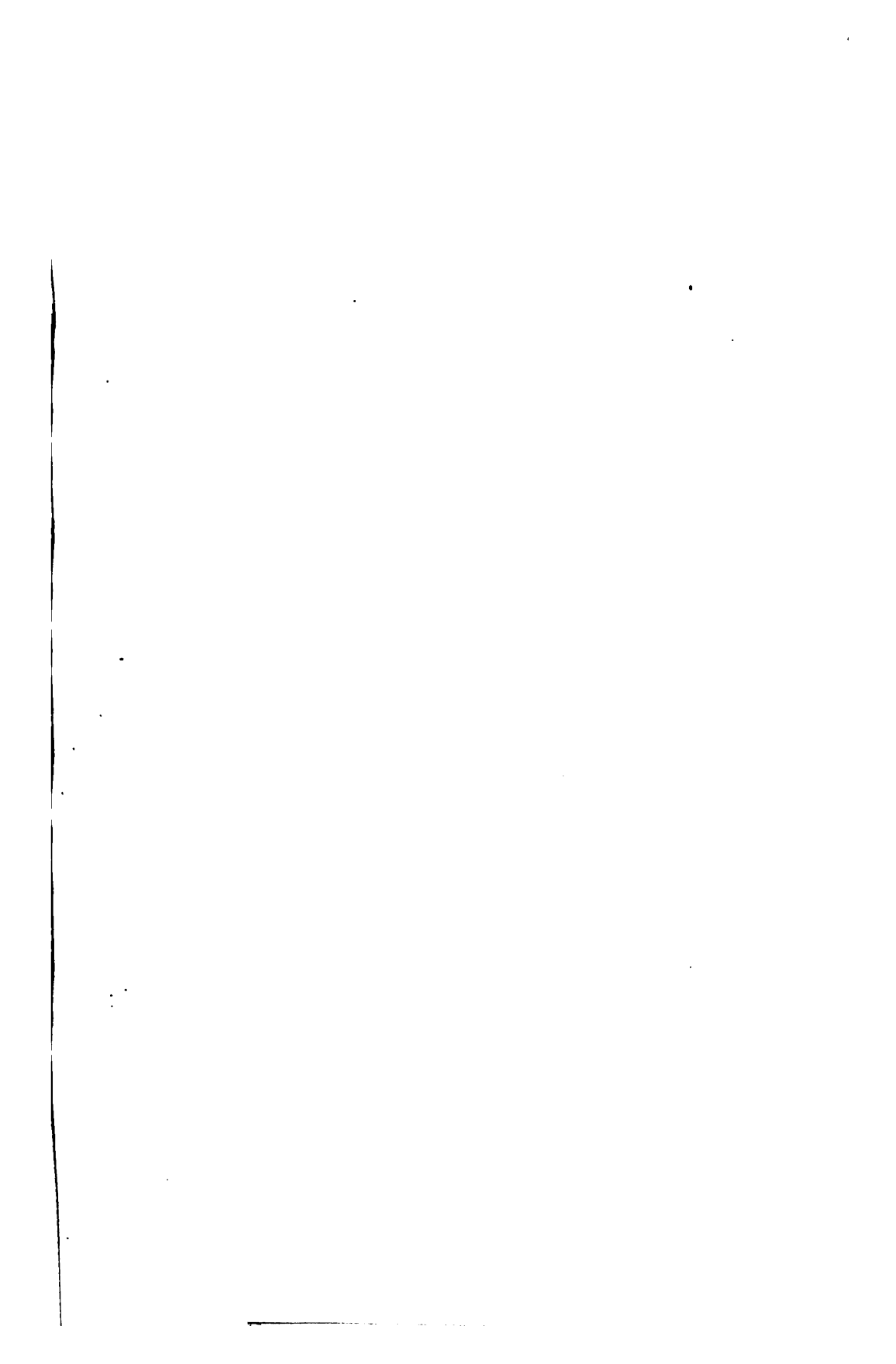
During the first eleven months of the past fiscal year, the Board was as follows:

P. H. A. Balsley, President.
Alfred J. Murphy, Vice-President.
Wm. Geist.
Edward C. Van Leyen.

Alexander W. Blain was appointed Commissioner April 18, 1899, to succeed Hon. Alfred J. Murphy, who resigned April 11, 1899.

Commissioner Geist was elected Vice-President on April 11, 1899, to fill the office made vacant by the resignation of Commissioner Murphy.





PARK COMMISSIONERS, 1871-99.

PARK COMMISSIONERS UNDER THE ACT OF 1871.

G. V. N. LOTHROP,	ROBERT P. TOMS,	A. SMITH BAGG,
JOHN J. BAGLEY,	MERRILL I. MILLS,	WM. A. BUTLER,
CHAS. I. WALKER,	CHAS. C. TROWBRIDGE.	

BOARD OF BELLE ISLE PARK COMMISSIONERS ORGANIZED SEPTEMBER 6, 1881.

NAMES.	Appointed.	Expiration of Term.	REMARKS.
MERRILL I. MILLS	Aug. 30, 1881..	Aug. 31, 1882..	
AUG. MARXHAUSEN	Aug. 30, 1881..	Aug. 31, 1883..	Re-appointed.
WM. A. MOORE	Aug. 30, 1881..	Aug. 31, 1884..	Re-appointed.
JAS. McMILLAN	Aug. 30, 1881..	Aug. 31, 1885..	Resigned '84. D. M. Ferry appointed for unexpired term.
WM. B. MORAN	Sept. 1, 1882..	Aug. 31, 1886..	
AUG. MARXHAUSEN	Sept. 1, 1883..	Aug. 31, 1887..	
DEXTER M. FERRY	Feb. 15, 1884..	Aug. 31, 1885..	Filling unexpired term of Jas. McMillan.
WM. A. MOORE	Aug. 31, 1884..	Aug. 31, 1888..	Resigned 1887. E. T. Slocum appointed for unexpired term.
JOS. A. MARSH	Jan. 22, 1886..	Aug. 31, 1889..	
ELLIOTT T. SLOCUM	Mar. 22, 1886..	Aug. 31, 1888..	Filling unexpired term of Wm. A. Moore.
FRED L. SEITZ	Oct. 8, 1886....	Aug. 31, 1890..	Resigned 1888. F. F. Palms filling unexpired term.
FRANCIS ADAMS	Aug. 12, 1887..	Aug. 31, 1891..	Resigned in 1888.
FRANCIS F. PALMS	Aug. 1, 1888..	Aug. 31, 1890..	Filling unexpired term of F. L. Seitz, resigned.
AUG. MARXHAUSEN	Aug. 1, 1888..	Aug. 31, 1891..	Filling unexpired term of F. Adams, resigned.
ELLIOTT T. SLOCUM	Sept. 5, 1888..	Aug. 31, 1892..	

Under Act of May 8, 1889, abrogating the Belle Isle Park Commission, the Commissioners of Parks and Boulevards was organized with four provisional Commissioners, HENRY M. DUFFIELD, ELLIOTT T. SLOCUM, FRANCIS PALMS and WM. B. MORAN, who were succeeded by the following

COMMISSIONERS OF PARKS AND BOULEVARDS:

NAMES.	Appointed.	Expiration of Term.	REMARKS.
GEO. H. RUSSELL.....	May 21, 1889.	May 31, 1890.	Served until Jan. 9, 1891.
JOHN ERHARD.....	May 21, 1889.	May 31, 1891.	
WM. LIVINGSTONE, JR.....	May 21, 1889.	May 31, 1892.	Re-appointed.
WM. K. PARCHER.....	May 21, 1889.	May 31, 1893.	
FRED A. BAKER.....	Jan. 9, 1891.	May 31, 1894.	Resigned May 3, 1892. S. Baldwin appointed to fill unexpired term.
STEPHEN BALDWIN.....	May 3, 1892.	May 31, 1894.	Resigned Nov. 15, 1892. James E. Scripps ap- pointed to fill unex- pired term.
JAS. E. SCRIPPS.....	Nov. 15, 1892.	May 31, 1894.	Re-appointed.
FRED GUENTHER.....	August, 1892.	May 31, 1895.	
WM. LIVINGSTONE, JR.....	May, 1892.	May 31, 1896.	Resigned Nov. 28, 1893. Aug. Marxhausen ap- pointed to fill unex- pired term.
AUG. MARXHAUSEN.....	Nov. 28, 1893.	May 31, 1896.	Declined to serve.
GEO. C. WETHERBEE.....	Jan. 9, 1894.	May 31, 1896.	Filling unexpired term of Wm. Livingstone, Jr.
CHAS. K. LATHAM.....	May 31, 1893.	May 31, 1897.	Resigned Dec. 31, 1896. James A. Randall ap- pointed to fill unex- pired term.
JAS. E. SCRIPPS.....	June 5, 1894.	May 31, 1898.	Resigned Mar. 1, 1896. A. S. Parker appointed to fill unexpired term.
CARL SCHWEIKART.....	June 11, 1895.	May 31, 1899.	Resigned June 13, 1898. Wm. Geist appointed to fill unexpired term.
ARTHUR S. PARKER.....	Mar. 1, 1896.	May 31, 1898.	Filling unexpired term of Jas. E. Scripps.
P. H. A. BALSLEY.....	June 1, 1896.	May 31, 1900.	
JAS. A. RANDALL.....	Jan. 12, 1897.	May 31, 1897.	Filling unexpired term of C. K. Latham.
BENJ. R. HOYT.....	June 22, 1897.	May 31, 1901.	Resigned June 28, 1898. A. J. Murphy appointed to fill unexpired term.
EDWARD C. VANLEYEN.....	June 6, 1898.	May 31, 1902.	
WM. GEIST.....	June 13, 1898.	May 31, 1899.	Filling unexpired term of Carl Schweikart and re-appointed.
ALFRED J. MURPHY.....	June 28, 1898.	May 31, 1901.	Resigned April 11, 1899.
ALEXANDER W. BLAIN.....	April 18, 1899.	May 31, 1901.	To fill unexpired term of A. J. Murphy.
WM. GEIST.....	May 31, 1899.	May 31, 1903.	

Commissioners of Parks and Boulevards,

CITY OF DETROIT.

To the Honorable the Common Council:

GENTLEMEN :



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Commissioner Geist was elected Vice-President on April 11, 1899, to fill the office made vacant by the resignation of Commissioner Murphy.





RUSTIC TOOL HOUSE.
BAND STAND.



TRANSFORMER HOUSE.
PICNIC PAVILION.

Hon. Wm. Geist was reappointed Commissioner on May 31, 1899, to succeed himself.

The organization of the Board at the meeting held June 19, 1899, resulted in the re-election of P. H. A. Balsley President and A. W. Blain Vice-President.

ORGANIZATION.

The Common Council by resolution on January 4, 1899, placed Second Avenue Parkway, containing 1.11 acres under the care and management of this Board, and under the act creating the Commissioners of Parks and Boulevards, Shakespeare & Schiller Esplanade parkways and Chicago and Boston Boulevard parkways, containing 4.88 acres have for the first time been mentioned in the annual report and will be improved as appropriations are granted for the purpose.

ADDITIONS.

A special assessment was spread upon the Boulevard property for sidewalks laid by the Board, by direction of the Common Council, in conformity to the provision of an act amending an act to provide for re-establishment and maintenance of the Boulevard, approved May 29, 1893, as follows:

ASSESSMENT.

Lot 44 of Atkinson's sub. of south part of lot 1, quarter section 57, ten thousand acre tract.	\$33.00
Lot 242 of Frisbie & Foxen's sub. of part of fractional section 31 and lot 18 of T. J. and D. J. Campau's sub. of fractional sections 29 and 32	19.80
Lot 234 and west half of lot 233 of Frisbie & Foxen's sub. of part of fractional section 31 and lot 18 of T. J. and D. J. Campau's sub. of fractional sections 29 and 32.....	29.70
	\$82.50

No general plan of house numbering upon the Boulevard had been established, causing great annoyance to property owners and others. The Board on May 31, 1898, requested the Common Council to pass an ordinance governing this matter, suggesting that the

BOULEVARD HOUSE
NUMBERS.



FOOT BRIDGE OVER MARSH RUN, BELLE ISLE PARK.

Boulevard be divided into four sections, viz.: Eastern Grand Boulevard, Northern Grand Boulevard East and Northern Grand Boulevard West from Woodward avenue, and Western Grand Boulevard. The numbering to commence at No. 1 at the northeast corner of Woodward avenue and the Boulevard and running east to the intersection of the Boulevard running south; this section to be known as the Northern Grand Boulevard East. Commencing at No. 1 at the southwest corner of Woodward avenue and the Boulevard running west to the intersection of the Boulevard running south; this section to be known as the Northern Grand Boulevard West. Commencing at No. 1 at the river (to provide for the Boulevard if extended to the river, that the numbers may be consecutive) running north to the intersection of the Northern Grand Boulevard West; this section to be known as the Western Grand Boulevard. Commencing at No. 1 at the northwest corner of the Boulevard and river (to prepare for the emergency that might arise should buildings be permitted between the river and Jefferson avenue, and running north to the intersection of the Northern Grand Boulevard East; this section to be known as the Eastern Grand Boulevard.

The Common Council on September 13, 1898, unanimously adopted an ordinance embodying the above suggestions.

The landing of excursion boats from neighboring cities on Belle Isle Park, over which the Board had no control, was a source of great annoyance, and the Board requested the Common Council to amend the ordinance placing the landing of boats other than ferries under the charge and direction of the Commissioners of Parks and Boulevards, and on December 13, 1898, an ordinance was unanimously adopted by the Common Council. That portion of the ordinance relating to the jurisdiction of the Commissioners of Parks and Boulevards is as follows:

BOULEVARD HOUSE NUMBERS.

EXCURSION BOATS.

IMPROVEMENTS.

character made for the convenience of and to enhance the enjoyment of the sight-seers who daily visit the parks and for the betterment of the park and boulevard system. Among these may be mentioned a private telephone system, which has been established on Belle Isle Park connecting the phaeton cashier's office at the north end of the Belle Isle bridge, the casino, bath house, skating pavilion and the east end of the island with the island office and by switch with the city office; saving much valuable time, as what was formerly done by messenger is now accomplished at once by telephone, thus making a financial saving as well as facilitating the business of the Board.

Palmer Park has also been connected by telephone with the city office. Formerly messengers were sent almost daily during the busy season to that park and on account of the great distance, each trip would consume half a day besides the payment of two street car fares.

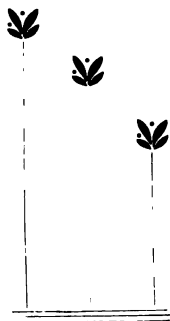
**LABELING TREES
AND SHRUBS.**

The parks being a part of the educational system of the city, it was determined to commence the labeling of trees and shrubs, that both the rising generation as well as the more mature, might become familiar not only with the scientific but with the common name, together with the families to which they belong, and the countries of which they are native.

ZOOLOGICAL DEPARTMENT.

The zoological department on Belle Isle Park has been increased but little during the past year; the additions, however, were made with a view to extending the number and kinds of animals and mating them, where possible.

During the month of November eight ostrich chicks were hatched, the first so far as is known that were ever hatched in a public park. The public seemed to take much interest in them, judging from the many inquiries made both at the city office and at Belle Isle Park. Owing to the inadequate accommodations for their requirements, it became necessary to erect a glass structure, which was heated by hot water, with a suit-





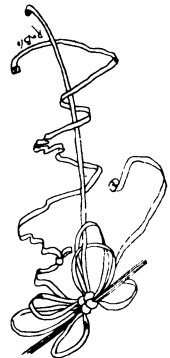
OSTRICH CHICKS HATCHED JUNE 29, 1899.

able depth of sand warmed by pipes, for a floor; however, before the structure was completed, the chicks died, but the structure, since its completion, admirably cares for the old birds and allows the visitors to the park to view them during inclement weather.

ZOOLOGICAL DEPARTMENT.

The following is a list of animals now on exhibition in the zoological department:

6 Alligators,	1 Pheasant, Amherst,
3 Cranes, blue,	3 Pheasants, ringneck,
21 Deer,	2 Pheasants, golden,
3 Eagles, bald,	2 Pheasants, Mongolian,
1 Eagle, golden,	2 Woodchucks,
13 Owls, various species,	1 Bear, grizzly,
20 Pigeons, various species,	5 Bears, black,
10 White rats,	5 Elk,
3 Raccoons, gray,	2 Lynx (wild cat),
1 Raccoon, albino,	2 Ostriches,
5 Swans,	4 Peafowls,



ZOOLOGICAL DEPARTMENT.

3 Buffalo,	1 Prairie dog,
2 Badgers,	5 Rabbits, English,
1 Duck, Dunkirk,	1 Vulture,
2 Geese, Poland,	2 Wolves, timber,
1 Goose, wild,	2 Wolves, gray,
3 Pheasants, silver,	3 Wolves, Coyote.

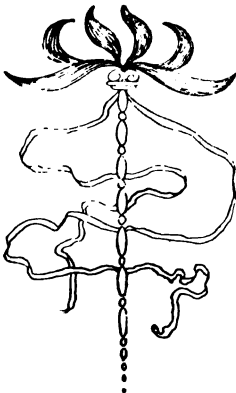
CONCERTS.

The band concerts afforded by the appropriation of \$3,500 was one of the delightful features of the parks and undoubtedly enjoyed during the season by vastly more people than any other one pleasure afforded by the park and boulevard system. From the middle of June to the close of the season, three concerts weekly were given; two upon Belle Isle and one on Clark Park. The attendance at these concerts was extremely large, and at a single concert it has frequently been estimated that from ten to fifteen thousand listeners have congregated. Owing to the popularity of this pleasure, it is hoped that the amount allowed for this purpose from year to year will be sufficient to permit the giving of more concerts, that music may be heard at various times in all of the larger parks.

The maintenance in some instances has suffered for the lack of appropriation.

ROADWAYS.

Many unfavorable comments have been made regarding the roadways both upon the Boulevard and Belle Isle Park, but owing to the inadequate appropriation allowed, little if anything could be done to care for them. The attention of your honorable body was especially called to this in past annual reports and in order that you may become better acquainted with the length, width and square yards of paving upon the Boulevard and the number of miles and square yards of both roads and walks upon all the parks, which require care, the following schedule is given:





BAND CONCERT DAY, BELLE ISLE PARK.

SQUARE LARDS OF DUBLIN AND BARRINGTON

LOCATION

LOCATION	Lineal Feet	Width Roadway	SQUARE YARDS			Lineal Feet of Walks
			Macadam	Brick	Asph't Block	
"Boulevard," Fort to Porter—Including Intersections	1,707 ft. 30 in. (Double)		11,880.00			
Porter to Shady Lane—Including Intersections	520 ft. 30 in.		1,725.00			
Porter to Shady Lane	520 ft. 30 in.					1,553.00
Shady Lane to Dix	174 ft. 30 in.		4,293.33			
Shady Lane to Dix	174 ft. 30 in.		980.88			
Baker Intersection	32 ft. 0 in.				533.33	
Dix Avenue Intersection	32 ft. 0 in.				766.66	
Dix Avenue to Toledo Avenue—Including Intersections	1,218 ft. 40 in.		5,913.33			
Dix Avenue to Toledo Avenue—Including Intersections	1,218 ft. 40 in.		3,228.00			
Subway	948 ft. 30 in.			346.66		
E Street to Michigan Avenue—Including Intersections	948 ft. 30 in.					
E Street to Michigan Avenue	948 ft. 30 in.					
E Street to Myrtle—Including Intersections	948 ft. 30 in.					
Michigan to Myrtle	948 ft. 30 in.		11,554.44			
Michigan Avenue Intersection	948 ft. 30 in.		2,324.00			
Michigan Avenue Intersection	948 ft. 30 in.		6,458.88			
Myrtle and Vinewood Crossings	46 ft. 0 in.				766.66	
Twenty-seventh Street Crossing	66 ft. 0 in.				2,250.00	
Myrtle to Buchanan	2,436 ft. 40 in.			603.33		
Buchanan Street Intersection	1,171 ft. 0 in.					288.00
Buchanan to Hancock—Including Intersections	1,171 ft. 0 in.		7,059.54			
Hancock to Hancock—Including Intersections	1,171 ft. 0 in.		9,376.66			
Hancock to McGraw—Including Intersections	2,012 ft. 30 in.					9,742.00
Warren Avenue Intersection	1,171 ft. 0 in.			319.00		
McGraw to Holden—Including Intersections	3,028 ft. 40 in.		10,553.66			
McGraw to Holden—Including Intersections	2,935 ft. 30 in.		2,388.88			
West Boulevard to Grand River—Including Intersections	422 ft. 0 in.				1,028.00	
Grand River Intersection	2,725 ft. 30 in.		18,307.00			
Dexter Boulevard Intersection	3,013 ft. 50 in.		10,064.00			
Eighteenth to Holden—Including Intersections	3,013 ft. 50 in.		44,799.51			
Holden to Woodward—Including Intersections	3,274 ft. 50 in.		20,094.55			
Woodward to Cameron—Including Intersections	14 ft. 0 in.					
Woodward Avenue Intersection	1,958 ft. 55 in.			233.00		
Beaubien Street Intersection	2,020 ft. 0 in.					
Cameron to Viaduct	107 ft. 0 in.					
Viaduct	107 ft. 0 in.					
Roadway under Viaduct	1,958 ft. 55 in.					
Between Viaduct and St. Aubin—Including Intersections	2,020 ft. 0 in.					
St. Aubin Avenue Intersection	107 ft. 0 in.					
St. Aubin to Dubois	1,958 ft. 55 in.					
Dubois to Chene—Including Intersections	1,958 ft. 55 in.					
Dubois to Chene	1,958 ft. 55 in.					
Chene to East Boulevard	573 ft. 0 in.		2,703.50			4,083.00
Chene Street Intersection	2,013 ft. 30 in.			977.00		
North Boulevard to Hendrie—Including Intersections	2,013 ft. 30 in.		18,775.00			
McDougall to Frontenac—Including Intersections	2,013 ft. 30 in.		20,750.00			
Frontenac to Gratiot	2,013 ft. 30 in.		14,967.05			
Rt. Elliott Avenue Intersection	5 ft. 0 in.					
Gratiot to Mack	3,402 ft. 30 in.		11,340.44			
Gratiot to Mack—Including Intersections	3,402 ft. 30 in.					
Gratiot Avenue Intersection	46 ft. 0 in.				971.00	
Mack Avenue to Champlain Street—Including Intersections	5,462 ft. 50 in.		31,404.55			
Champlain Intersection	50 ft. 0 in.			466.66		
Champlain to Jefferson	1,228 ft. 35 in.		6,822.22			
St. Louis Intersection and Park Walks						
Lineal Feet Roadway "Marked Double" added	71,426 ft. 61 in.					14,761.00
Totals	82,038 ft. 61 in.					
Total Square Feet of Roadway			302,627.71	31,100.00	5,006.66	61,419.00
Total Square Feet of Roadway						9,540.00

PARK WALKS AND ROADS.

	WALKS.		ROADS.			
	Lineal Feet.	Square Yards.	DIRT. Lineal Feet.	DIRT. Square Yards.	GRAVEL. Lineal Feet.	GRAVEL. Square Yards.
Belle Isle Park.....	26,761	17,840	3,580	107,400	71,820	248,678
Clark Park.....	7,040	5,421			3,610	8,022
Palmer Park.....	17,160	19,006	33,050	62,343	6,826	14,003
Cadillac Square.....	755	465				
Campau Park.....	415	209				
Capitol Square Park.....	202	160				
Cass Park.....	1,342	737				
Clinton Park.....	391	203				
Crawford Park.....	630	514				
Elton Park.....	645	524				
Grand Circus Park, East.....	1,693	1,799				
Grand Circus Park, West.....	1,464	1,832				
Harmonie Park.....	426	353				
Macomb Park.....	651	500				
Perrien Park.....	3,060	3,508				
Stanton Park.....	621	605				
West Park.....	364	389				
Washington Avenue Parkway.....	4,052	1,949				
	67,672	56,014	36,630	169,743	82,256	270,703
	or 12.81 miles			22.51 miles.	440.446	sq. yds.

GRAND TOTAL WALKS AND ROADS.

	WALKS.		ROADS.			
	Lineal Feet.	Square Yards.	Lineal Feet.	Square Yards	Lineal Feet.	Miles.
Walks and Roads on Parks.....	67,672	56,014 00	12 81	118,886 00	440,446 00	22 51
Walks and Roads on Grand Boulevard.....	14,761	9,940 66	2 79	82,038 00	377,503 61	15 57
Total Number of "Lineal Feet," "Square Yards" and "Lineal Miles" of Roads and Walks on entire Park and Boulevard System.....	82,433	65,854 66	15 60	200,924 00	817,949 61	38 08

TOTAL MILES ROADS 38.08.

TOTAL MILES WALKS 15.60.



FOOT BRIDGE OVER MARSH RUN, BELLE ISLE PARK.

The completion of the Boulevard from Buchanan to Myrtle St. is much talked of and should be completed at an early date, that the Boulevard may be thrown open to the public its entire length, and thereby enhance its beauty and advantages.

ROADWAYS.

The buildings upon the park system have been maintained and the bath-house on Belle Isle Park was thoroughly renovated and opened to the public June 17, 1899.

BUILDINGS.

A ticket registering system has been introduced both in the park phaeton service and in the bath-house service whereby the tickets are issued upon the registering of the cash received for the service; the phaeton register service showing that there were 148,122 passengers carried across the Belle Isle bridge and 31,482 passengers carried around Belle Isle Park, making a total of 179,604 passengers carried by the service.

PHAETON SERVICE.

The bath-house register system shows that there was a total of 38,931 bathers, who availed themselves of the opportunity, of which 20,802 were accommodated in the free department.

BATH HOUSE SERVICE.

A system has been introduced whereby the heads of the various departments make a daily report showing the number of men employed, together with a summary of work performed and also other employes (excluding laborers) are furnished with blanks upon which to report the happenings, accidents, etc., occurring upon the park and boulevard system, which they may have witnessed. These reports are made at the close of each day and transmitted to the city office, that the Commission may be in constant touch with the happenings and progress of work.

DAILY REPORTS.

The privileges on Belle Isle Park, i. e., the Casino and Skating Pavilion refreshment privileges, boating, bicycle and pony renting privileges were leased for a stipulated rental for the coming year. The Palmer Park Casino and picnic refreshment privilege was let for 11 per cent. of the gross receipts.

PRIVILEGES.

THE POLICY OF
THE COMMISSION

The policy of the Commission has not been changed, and that is that the parks shall always be open to all citizens on absolutely equal terms, and none shall be given special privileges thereon or permitted to make use of them for any purpose not practically common to all, and consistent with the proper use of parks.

STATISTICS

The Secretary and General Manager's financial report will set forth the receipts and disbursements and the General Superintendent's report will clearly define the improvements and maintenance under the appropriation, all of which are hereto annexed and are a part of this report.

Respectfully submitted,

P. H. A. BALSLEY, *President.*

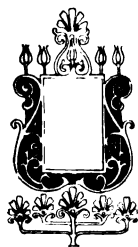
A. W. BLAIN, *Vice-President.*

EDW. C. VAN LEYEN.

WM. GEIST.

M. P. HURLBUT,

Sec'y and Gen'l Manager.





HON. JAMES A. RANDALL
TURNING THE FIRST FURROW ON THE GRAND BOULEVARD.

THE father of the boulevard, Hon. James A. Randall, on Monday morning, August 10, 1891, a blistering hot day, accompanied by Hon. H. S. Pingree, the members of the Commissioners of Parks and Boulevards, with many of the aldermen and prominent citizens, met at the intersection of John R. street and the Boulevard.

Two pairs of heavy draft horses attached to a large breaking plow were there, and Mr. Randall with the dignity becoming the solemnity of the occasion, removed his coat and cuffs, handing the former to a bystander and slipping one of the latter over each of the plow handles, he grasped the handles of the plow, the horses were started and the breaking of the ground for the work of improving Detroit's great pathway was begun.

The first furrow was turned and by him, who with that determination and persistency peculiar to the man, had given to Detroit this grand thoroughfare.

The photographer in making this instantaneous view caught but the plow, its operator and a handful of the advance guard, the large crowd of spectators being left in the rear and outside the range of his camera. The figure on horseback is that of Hon. H. S. Pingree, then Mayor of the City of Detroit.



PASTIME ON BELLE ISLE PARK.

General Superintendent's Report.

*To the Honorable, the
Commissioners of Parks and Boulevards:*

GENTLEMEN:



HEREWITH submit a report of the work done on the Park and Boulevard System for the year ending June 30, 1899.

It has been a trying year, inasmuch as the fall was very late and a full force of workmen was employed until the end of November, thus causing an unusual outlay from a too limited appropriation, and it was only by the strictest economy and the postponement of several projects ordered by your Board that the year was closed without a deficit.

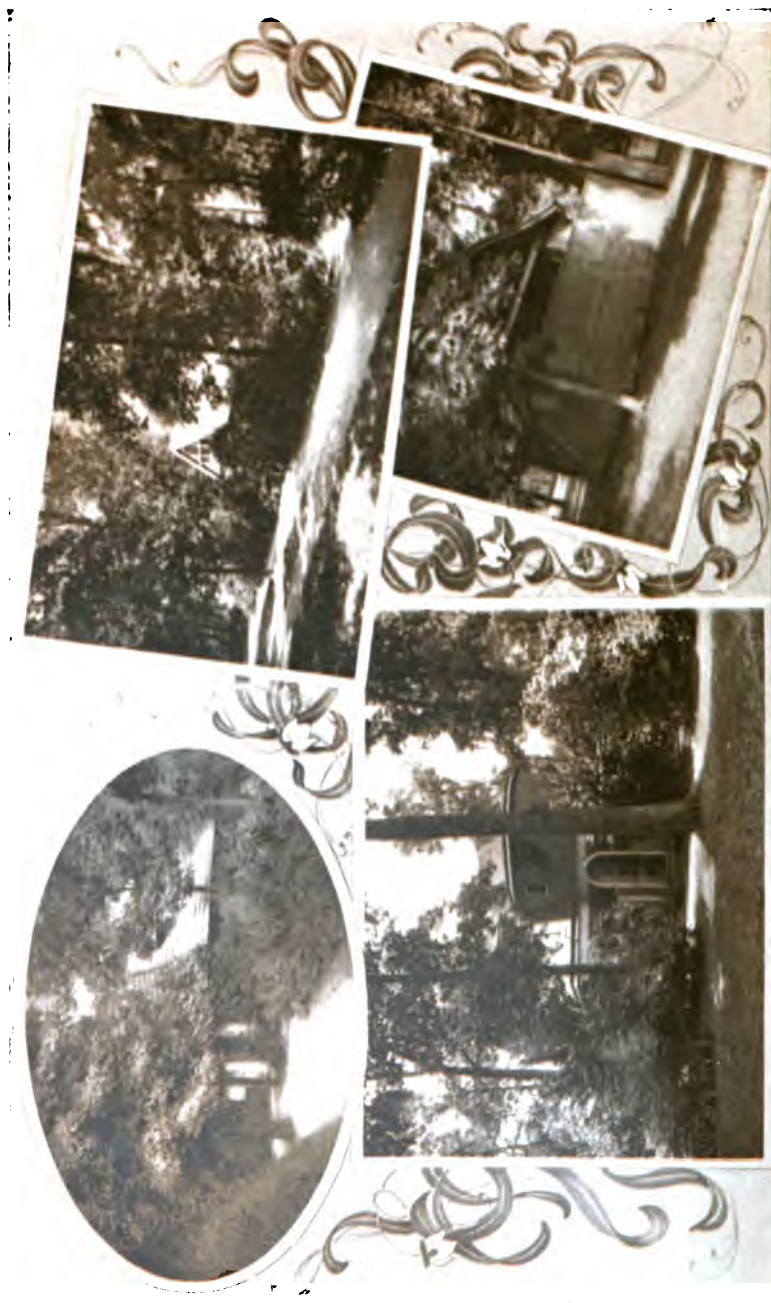
The heavy teaming during the fall, winter and spring cut the roadways badly, even breaking into the foundation course in places: thus making their repair in the spring a laborious task, especially as the five-ton horse roller was broken by falling through a wooden bridge on Belle Isle Park and was out of use at the critical time that the ground was settling.

BELLE ISLE PARK.

The making of the drives around the Shelter Pavilion was anticipated by drawing a large amount of slag on the ground during the winter, when the horses were not otherwise employed.

So many people now visit the head of the Island, that a horse drinking fountain, having also ice water for people, was constructed; this obviates the pumping of water by hand for horses, as was formerly done, and gives two fountains for picnic parties, which dispenses with the only remaining water tank at this place. To feed this fountain, a thousand feet of four-inch water pipe was laid, which is a continuation of the water system around the Island.





LAVATORIES, BELLE ISLE PARK.

To facilitate the watering of the lawns and to save hose 2,761 feet of one and two-inch galvanized iron pipe was laid west of the Casino. This system should be extended, as there are many places yet that the florists have to use five hundred feet of hose, where with this pipe system from fifty to seventy-five feet would be ample, and the cost of the pipe system would be paid in the saving of hose alone in two years, and the work can be done more rapidly.

The stone bridge across the lagoon at the menagerie ground was enlarged by day labor, and the foot bridge over the canal below the Skating Pavilion was completed by contract.

The carpentry department made temporary repairs to the wooden bridges; also extensive repairs to the boat-house, besides numerous repairs to the Casino, Skating Pavilion, several toilet pavilions, as well as work on the entire system.

The phaeton service was carefully managed and the public well accommodated. Any system of conveyance by horse power is inadequate in rush days; even the ferries and street cars are over-crowded. Many of the phaetons were repaired and all were provided with brakes and one new one was purchased.

The sprinkling wagons were fitted with modern sprinkling attachments, which enabled them to do double the work heretofore accomplished.

The work of the teams was so managed that they were employed continually throughout the year. The number of horses on hand at the present time is forty-eight, and in the hands of well-trained teamsters, a great saving is made as compared with hired teams.

The Zoological Department is deservedly popular. Each specimen is healthy and wholesome looking. It would be well to increase the collection, especially by the addition of such animals and birds as are hardy in this climate.

The \$500 appropriated for walks and roads was nearly all spent for gravel alone, and was only suffi-

BELLE ISLE PARK.





ICE WATER DRINKING PLACES, BELLE ISLE PARK.

cient to repair a few of the worst places. There are 23 miles of roads on the Island, all of which is surfaced with gravel, which from its very nature is easily cut up at every thaw, and as the ground is all low and during the spring it is full of water, the heavy teaming cuts up the road to its foundation, thereby keeping it in a very unsatisfactory condition. The most feasible way to remedy this is to entirely resurface the roads with crushed stone or trap rock. Some of the drives will require a foundation, as the gravel is spread on clay.

At the present time, stone can be obtained cheap, as it is removed from the streets, and I would recommend that all of this stone be acquired by this Board until all the Island and Boulevard roads are resurfaced and the unfinished driveways of the Boulevard are completed. Cobble stone costs now, delivered, about seventy cents per cubic yard, and when the supply from the streets is once gone, it will cost nearly \$2.00 per cubic yard.

The green-house last winter was crowded to its utmost capacity, to care for the increasing number of palms and to raise the required number of bedding plants. But little repairs were made to the present structures, as they will be superseded by new buildings, for which \$6,000 is appropriated, it being understood that this amount will build but a portion of the needed range. Over 300,000 plants were raised for the various parks, into which they were bedded out at the usual time. The flower beds along Central avenue are being replaced by shrubs and the herbaceous plants, and the flower beds concentrated more in the cultivated portions of the Island and in the city parks.

The original forest trees which are one of the features of the Island are withstanding the change from an untrodden forest to a populated park none too well, although there was less loss this past year than formerly. The hickories and silver maples suffer the most, and the dead limbs in the tops of the pin oaks foretell their decay. I would recommend that during

BELLE ISLE PARK.

GREENHOUSE.





STONE FOOT BRIDGE, BELLE ISLE PARK.

the fall and winter, they receive a dressing of composted manure and ground bone to supply them with food for which they are starving.

Being in possession of the steam roller purchased during the previous year, it has made it possible to keep in repair the Boulevard roadways that had begun to show ruts. This was especially noticeable between McGraw and Eighteenth street and from Greenwood to Woodward. In fact, the whole Boulevard west of Woodward avenue was carefully leveled and rolled.

The resurfacing between Eighteenth street and Twelfth street, done the previous year, was continued to Greenwood avenue on the northern driveway.

A stone crusher has been acquired and is a valuable acquisition. Stone can be purchased cheap delivered near the Boulevard, and as this crusher is portable, it can be set up wherever the stone is piled, and thus a large saving is made, as compared with purchasing the crushed material. The building of the eastern driveway between Fort and Lafayette and Howard and Porter streets is just being completed. The roadways on the banks of the subway were completed as far as the appropriation would allow. The money allowed for the side roadways at Dequindre street bridge was only sufficient to put in the curb.

The intersection of Champlain street and the Boulevard was paved with brick, and temporary opening was made for Kercheval, Berlin and Sylvester avenues.

The money for the improvement of lawns was largely used in front of lots where buildings are being constructed, and it will be necessary to continue this work until the Boulevard is built up and all the lawns are regraded, enriched and sodded. I would strongly recommend that an additional appropriation of \$1,600 be allowed that the lawns on the more thickly settled portions of the Boulevard be kept down with a lawn mower.

Extensive progress has been made in the laying of cement sidewalks. On the Eastern Boulevard, walks have been laid on the east side of the driveway from

BELLE ISLE PARK.

BOULEVARD.

STONE CRUSHER

LAWNS.

SIDEWALKS.

BOULEVARD SIDEWALKS

Agnes north to Frontenac with a few breaks, and between Mack and Frontenac on the west side from Champlain to Mack and from Gratiot to Frontenac. On the Northern Boulevard, a few walks between John R and Cameron and a nearly unbroken stretch from Greenwood to Grand River, and on the Western Boulevard many pieces from Fort to Myrtle, making a total of 4.6 miles, in addition to which the needful intersections in the same localities were laid by your Board.

PALMER PARK.

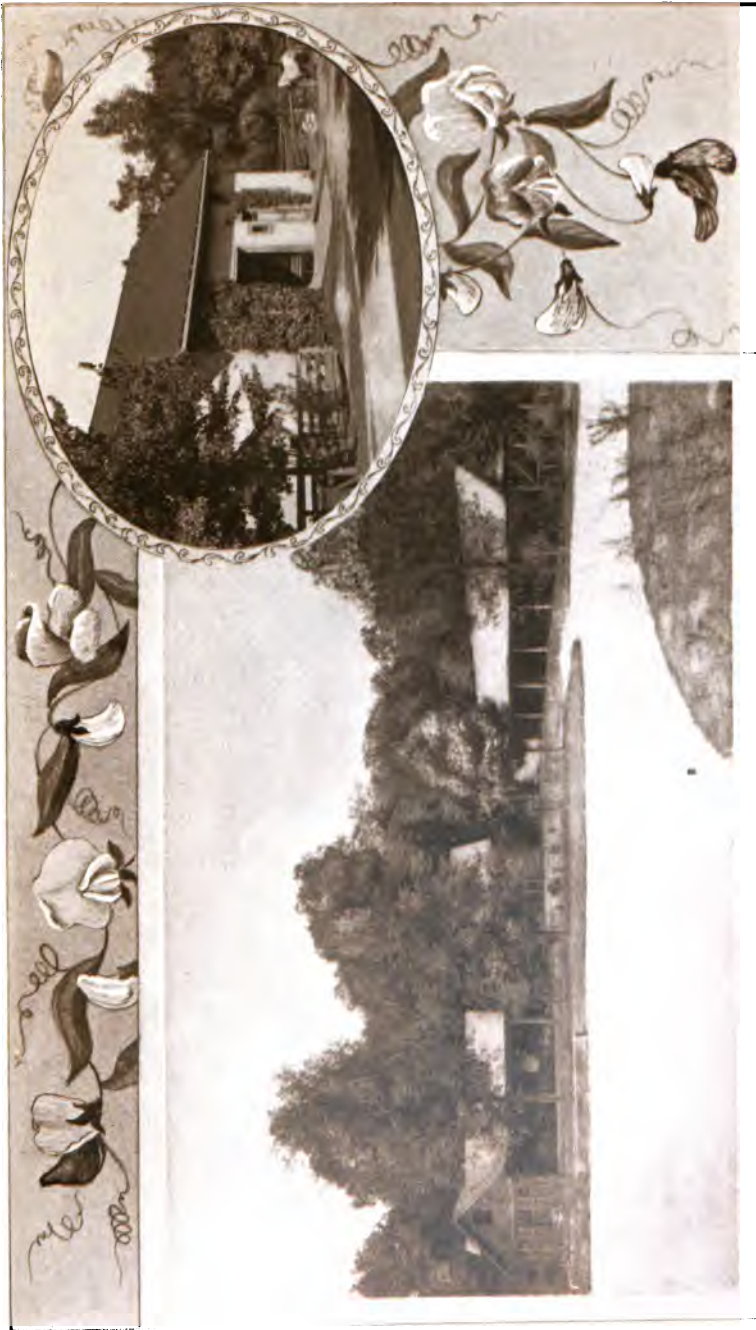
The roads which were commenced the previous year were completed. The barn at the log cabin sat so close to the driveway, that it gave a cramped appearance; to remedy this, it was moved back to a niche in the woods, and near it was built a needed workroom and tool-house and a thatched roof horse shelter, all of which combine nicely in carrying out the rural design of this park.

To accommodate more thoroughly the public, provision was made in the picnic pavilion for the caterer to sell ice cream, soda water, milk, etc. A flag pole was erected near the log cabin and a cascade was made at Lake Higenio, the ground back of which is not yet completed.

The general policy and features of the park were outlined and adopted by the Commission, of which the following are the salient points: The park is to be rustic and rural and the improvements are to conform to this idea. The native woods are to remain intact. A plantation is to be made on Merrill Plaisance of native Michigan plants, which will be a Michigan botanical garden, and in the main the floral work will be much on the same line.

CLARK PARK.

The increasing popularity of this park made several changes necessary. The music pavilion near the north end of the park way moved further south to a point more convenient to the audience on concert days and the locality where the pavilion formerly stood was



AS IT WAS.

AT PRESENT. BARNYARD AT LOG CABIN, PALMER PARK.

CLARK PARK.

raised to a higher grade by the addition of 280 yards of dirt.

One of the fountains from the City Hall was removed to this park, where with some modification of the water display, it makes a desired acquisition.

Twenty-five hundred feet of surface water pipe was laid through the center and north part of the park, and if this system of pipes were carried through the southern end this coming year, it would be possible to extend the plantations of flowers and shrubs uniformly throughout the park.

A flag pole was erected at the junction of the lake and driveway. The foundation was found to be very soft and the base of the pole and the braces were embedded in cement, which gave the required stability.

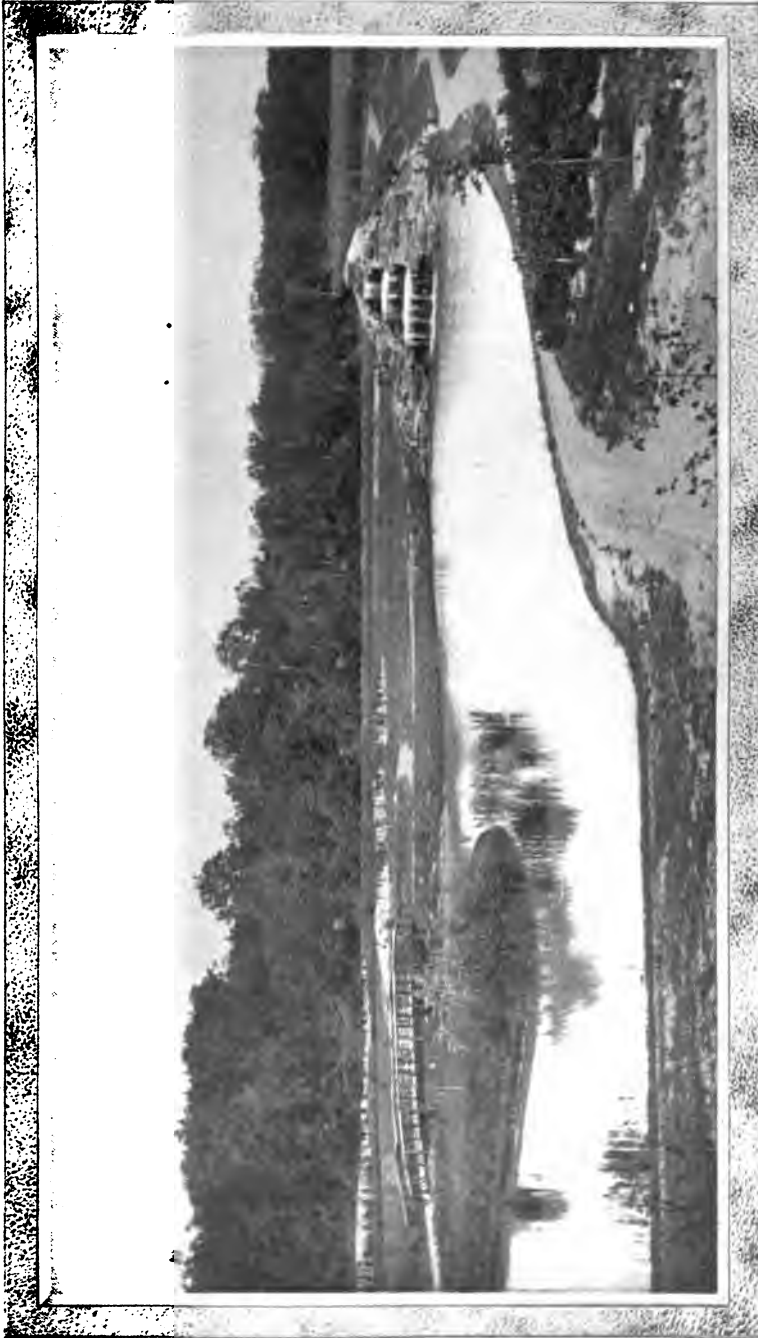
The banks of the lake were graveled and the children given full freedom to play in the water and sail toy boats, which pleasure is a much coveted one and does not now defile the water.

The completion and occupancy of the Western High School, adjacent to this park, made it necessary to introduce some new paths. For the same reason it would be much appreciated if more attention were paid to keeping the lake in condition for skating during the winter.

The past severe winter has killed a number of the larger trees.

PERRIEN PARK.

The funds appropriated for this park were only sufficient to place a fountain that was removed from the City Hall lawn and to lay a system of water pipe, leaving a major portion of the lawn in an unfinished condition. The plantations of trees and shrubs are making rapid progress and as soon as the lawns are completed, these trees will be sizeable enough to furnish considerable shade. The appropriations for the coming year should be largely devoted to the completion of the lawns, the placing of a drinking fountain and the resurfacing of certain portions of the walks.



LAKE HIGUENO AND PONTIAC CASCADE, PALMER PARK.

OWEN PARK.

The upper portion of the park is completed and it is hoped that the funds allowed the coming year will finish the walks and landscape the lower level.

WASHINGTON PARK.

Although as yet there has been no money available for the improvement of this parkway, much work has been done in making better walks, sodding worn-out places and in decorating with flower beds and vases, all of which is greatly appreciated, as this park is probably seen by more strangers than any other park of the system.

GRAND CIRCUS PARK.

But little has been done in these two parks, except to keep them up to a high state of cultivation. The main walks in these parks should be made more serviceable for winter and spring use, as at those times, they are quite muddy.

CASS PARK.

The lawns received a heavy dressing of compost during the past winter, the beneficial effect of which is very apparent on the lawns, and it is hoped that it will invigorate the older trees, which are suffering for fertility. Many of the trees are too close together for a healthy growth, and it would be advisable to take out the poorer specimens before the others are permanently injured.

SMALL PARKS.

The many smaller parks throughout the city were well cared for, but little was done in the way of improvement except that a surface water pipe system has been extended during the past year until now in the older parks but one length of hose is required for watering.

CARE-TAKERS.

The funds for care-takers being exhausted, they were not put on until June 1st, after which date all the small parks were placed in first-class condition.

For future use of the city parks and boulevard, about 800 cubic yards of manure were gathered and are being composted.



WEST SIDE GRAND CIRCUS PARK.

NURSERY.

The stock in the nursery is being kept up to the usual amount. The extremely hard winter killed back many varieties and some were destroyed entirely. Many trees will reach planting out size this coming year, but the greater number will not be large enough to remove for two or three seasons yet. It is hoped that the coming year will see the nursery more thoroughly established by having a propagating house and storage cellar and this branch of the park work given the attention it deserves.

Respectfully submitted,

R. J. CORYELL,
Gen. Supt.





SCENES ON BELLE ISLE PARK.

Secretary's Report.

to the Honorable, the

Commissioners of Parks and Boulevards :

GENTLEMEN :

IN accordance with your direction, I herewith submit the annual financial statement of the Commissioners of Parks and Boulevards for the fiscal year just passed from July 1, 1898, to June 30, 1899, both days inclusive, showing cash balances at the close of business as follows :

Boulevard right of way fund.....\$807.86
Park and Boulevard fund..... 353.03

certified to by Deputy City Controller, as per his statement attached hereto.

Respectfully submitted,

M. P. HURLBUT,

Sec'y and Gen'l Mngr.

REPORT JULY 1, 1898, TO JUNE 30, 1899.

RECEIPTS.

Cash Balance Park and Boulevard Fund.....	\$ 8,245 76
Cash Balance Boulevard Right-of-way Fund.....	1,357 86
Appropriation 1898.....	\$113,350 00
Appropriation 1897.....	92 01
Sale of Ice, Belle Isle.....	252 25
Sale of Ice, Palmer Park.....	15 77
Sale of Gravel.....	14 80
Ferry Licenses.....	75 00
Inspection Permits.....	35 00
Sale of Feed.....	216 83
Sale of Shovel, etc.....	1 65
Sale of Shrubs.....	10 00
Sale of Old Hose.....	75
Sale of Old Sidewalk, Boulevard.....	136 50

*RECEIPTS—Continued.***RECEIPTS.**

Detroit Water Commission, acc't labor	
and material	46 25
Sale of Pump Ladders	1 25
Rent of Bicycle	9 50
Sale of Lumber, Iron, etc	11 16
Sale of Deer and Elk	110 00
Sale of Willows	5 00
Sale of Sidewalk, Palmer Park	3 11
Uncalled for Checks retur'd City Treas. .	32 80
Sale of Horses	450 00
Rent Detroit Yacht Club	2 00
Rent Detroit Boat Club	6 00
Boat Landing Permits	40 00
Interest on Sidewalks, Boulevard	2 68
Casino Privilege, Belle Isle Park	3,400 00
Boating Privilege, Belle Isle Park	350 00
Bicycle Privilege, Belle Isle Park	1,220 00
Pony Privilege, Belle Isle Park	300 00
Casino Privilege, Palmer Park	198 24
Phaeton Receipts	7,830 26
Bath-house Receipts	1,308 85
Total Receipts	129,527 66
	\$139,131 28

EXPENDITURES.**GENERAL MAINTENANCE
BELLE ISLE PARK.**

Maintenance Grounds generally	\$ 6,570 39
Settees and Swings	228 41
Bicycle Racks	7 39
Signs and Rustic Work	56 43
Flags and Staff	21 79
Base Ball Grounds	52 18
Material and Supplies, General Use	306 03
Deer Park	24 38
Speeding Track	92 75
Casino Clock	51 30
Fuel, General	944 63
Hay Making	35 92
	8,391 60

Floral, Propagating and Planting	\$ 6,209 42
Trees and Shrubs, Care of	2,008 54
Green House Stock	75 32
	8,293 28

GREEN HOUSES

Casino	\$ 829 14
Skating Pavilion	1,246 85
Bath House	920 68
Boat House	827 91
Barn	277 26
Greenhouse	501 31
Inselruhe	212 49
Ice Houses	526 12

BUILDINGS.

EXPENDITURES—Continued.

BUILDINGS	Pavilions Generally.....	416 37	
	Buildings Generally.....	521 42	
	Furniture and Fixtures.....	153 73	
	Band Stand.....	205 79	
	Ostrich Shelter.....	800 77	7,439 84
MISCELLANEOUS.	Cash Registers.....	\$ 498 75	
	New Phaeton.....	850 00	
	Band Concerts.....	2,328 00	
	Labeling Trees.....	14 31	
	Incidentals.....	125 62	3,816 68
ROADS AND WALKS	Maintenance Roads.....	\$ 1,851 17	
	Sprinkling Roads.....	228 30	
	Hitching Bays.....	15 88	
	Maintenance Walks.....	441 92	2,537 27
PARK PHAETON	Service.....		3,697 10
BATH HOUSE.	Maintenance.....		1,608 18
CLOSETS AND CESSPOOLS.	Closets and Cesspools, Care of.....	\$ 1,161 62	
	Closets and Cesspools, Repairs.....	123 15	
	Toilet Materials and Supplies.....	109 75	1,394 52
DOCKS AND BRIDGES.	Docks, Care of.....	\$ 183 25	
	Docks, Repairs.....	43 88	
	Bridges, Repairs, (Rustic).....	1,125 80	1,352 93
MENAGERIE.	Menagerie, Care of.....	\$ 1,042 23	
	Feed.....	1,099 31	
	Animals Purchased.....	236 95	
	Cages, Repair.....	371 63	2,750 12
TOOLS AND IMPLEMENTS.	Tools and Implements, Purchased.....	\$ 379 04	
	Repairs.....	774 42	1,153 46
BARNs, HORSES AND VEHICLES.	Barns and Horses, Care of.....	\$ 4,005 43	
	Vehicles, Purchase and Repair.....	2,150 34	
	Shoeing Horses.....	487 07	
	Harnesses.....	160 58	
	Forage.....	2,511 49	
	Supplies.....	422 33	9,737 24
HORSES.	Purchase.....		1,750 89

EXPENDITURES—Continued.

Beaches, Cleaning.....	\$ 430 43	LAKES AND CANALS.
Canals, Cleaning.....	511 20	
Fish Lake.....	138 17	
Skating Lake.....	671 16	
	1,750 96	
General Repairs.....	\$ 228 27	WATER SYSTEM.
Water and Ice, to Tanks and Fountains..	319 25	
Water Tanks, Repairs	123 80	
Cutting Ice	338 92	
	1,010 24	
TOTAL MAINTENANCE BELLE ISLE PARK.....	\$56,684 31	
Drainage.....	\$ 229 81	BELLE ISLE PARK IMPROVEMENTS.
Improvements, General.....	1,270 03	
Survey.....	285 21	
Lawn Sprinkling System.....	1,002 04	
Foot Bridge, Power House.....	1,274 81	
Shelter Pavilion.....	8,321 50	
Bridge Approach.....	570 58	
Gravel and Construction of Roads.....	1,047 53	
Rip-rapping North-east Lake	127 33	
Drinking Fountains, (Ice).....	718 23	
Water Extension, (System).....	831 25	
	15,678 32	
Care Takers.....	\$ 3,057 77	BOULEVARD MAINTENANCE.
Roadways, Maintenance.....	450 53	
Roadways, Sprinkling.....	1,034 03	
Roadways, Re-surfacing.....	4,084 41	
Lawns, maintenance	1,655 44	
Floral, Display	23 58	
Water Sprinkling System.....	412 16	
Settees and Signs.....	9 07	
Sidewalk Repairs.....	121 08	
Maintenance, General.....	252 69	
Road Roller, Steam.....	1,324 54	
Stone Crusher.....	770 44	
	13,195 74	
Trees, Purchase and Care of.....	\$ 906 86	BOULEVARD IMPROVEMENTS.
E Street to Myrtle.....	289 60	
Subway, Imp.....	752 25	
Fort to Porter, Roadway.....	2,260 81	
Viaduct Roads.....	980 44	
Viaduct Planting.....	101 45	
Sidewalks and Intersections.....	2,599 37	
Roadway Intersections.....	889 50	
Lawn Improvements	1,026 42	

EXPENDITURES—Continued.

BOULEVARD IMPROVEMENTS	General Improvements.....	48 33	
	Cobble, General Use.....	124 85	
	Survey	351 45	
	Settees	510 00	
	TOTAL BOULEVARD IMPROVEMENTS.....		10,841 55

PALMER PARK MAINTENANCE	Maintenance Grounds, General.....	\$ 3,002 90	
	Floral Display	33 28	
	Roads and Bridges.....	3 00	
	Water Rent	750 00	
	Making Hay	49 00	
	Vehicles, Purchase	85 50	
	Fuel	45 50	
	Cutting Ice.....	34 31	
	TOTAL PALMER PARK MAINTENANCE.....		4,003 55

PALMER PARK IMPROVEMENTS.	Improvements Grounds, General.....	\$ 7,503 69	
	Roads and Bridges.....	243 84	
	Water System	50 02	
	Casino	1,369 43	
	Lake	9 00	
	Flag Staff and Flag.....	308 50	
	Horse Shelter.....	560 09	
	Tool House.....	612 99	
	Refreshment Stand in Pavilion.....	475 00	
	TOTAL PALMER PARK IMPROVEMENT.....		11,132 56

CITY PARKS MAINTENANCE.

CLARK PARK.	General Maintenance Lawns.....	\$ 196 66	
	Floral Display.....	88 81	
	Buildings	68 84	
	Settees.....	8 00	
	Band Concerts.....	1,007 00	1,869 31
MEDBURY PARK.	Maintenance Lawns.....		3 75
RECREATION PARK.	Maintenance Lawns.....		3 75
WASHINGTON PARK.	Maintenance, General.....		241 41
MACOMB PARK.	Maintenance Lawns.....	\$ 36 92	
	Floral Display.....	1 73	
	Water System.....	9 00	47 65

EXPENDITURES—Continued.

Maintenance Lawns.....	\$	34 76					CRAWFORD PARK.
Floral Display.....		11 34					
Water System.....		28 23					
					74	33	
Maintenance Lawns.....	\$	14 28					OPERA HOUSE LAWN.
Floral Display.....		11 01					
					25	29	
Maintenance Lawns.....	\$	86 16					CLINTON PARK.
Floral Display.....		31 65					
Water System.....		50 03					
					167	84	
Maintenance Lawns.....	\$	23 07					WEST PARK.
Floral Display.....		1 89					
Water System.....		19 00					
					43	96	
Maintenance Lawns.....	\$	62 14					CADILLAC PARK.
Floral Display.....		17 21					
Trees and Shrubs.....		6 95					
					86	30	
Maintenance Lawns.....	\$	27 16					STANTON PARK.
Floral Display.....		29 37					
Water System.....		35 32					
					91	85	
Maintenance Lawns.....	\$	28 20					CAMPAU PARK.
Floral Display.....		15 17					
Water System.....		38 02					
					81	39	
Maintenance Lawns.....	\$	62 01					CAPITOL PARK.
Floral Display.....		120 38					
Water System.....		20 00					
					202	39	
Maintenance Lawns.....	\$	26 21					HARMONIE PARK.
Floral Display.....		20 45					
					46	66	
Maintenance Lawns.....	\$	52 61					ELTON PARK.
Floral Display.....		4 55					
Water System.....		12 75					
					69	91	
Maintenance Lawns.....	\$	95 93					CITY HALL LAWN
Floral Display.....		377 55					
Water System, Repair.....		13 50					
					486	98	

EXPENDITURES—Continued.

GRAND CIRCUS PARK	Maintenance Lawns.....	\$ 550 86	
	Floral Display	271 08	
	Water System	44 32	866 26
CASS PARK.	Maintenance Lawns	\$ 453 82	
	Floral Display	196 47	
	Water System	44 47	694 76
PERRIEN PARK	Maintenance Lawns	\$ 20 52	
	Floral Display	22 13	42 65
MISCELLANEOUS	Care-takers City Parks.....	\$ 3,931 36	
	Maintenance General	990 90	
	Fountain Covers	200 56	
	City Barn, Rent, Etc.	154 85	
	Settees and Signs.....	14 09	
	Fountains Generally.....	9 25	
	Police Station, Floral Design.....	6 90	
	Soldiers' Monument, Floral Display.....	103 50	
		\$ 5,411 41	
TOTAL CITY PARKS MAINTENANCE.....			10,057 85
NURSERY	Care of		315 66

CITY PARKS IMPROVEMENTS.

CLARK PARK	Water System	\$ 917 44	
	Trees and Shrubs.....	167 75	
	Walks	177 82	
	Flag Staff and Flag.....	728 33	
	Lake	216 80	
	Improvements Generally	520 91	2,729 65
MEDBURY PARK	Trees and Shrubs.....		60 90
RECREATION PARK.	Trees and Shrubs.....		19 70
MACOMB PARK.	Trees and Shrubs.....	\$ 5 66	
	Walks	1 50	7 16
CRAWFORD PARK.	Trees and Shrubs.....	\$ 5 15	
	Walks	5 25	10 40
CLINTON PARK.	Trees and Shrubs.....	\$ 3 00	
	Walks	7 50	10 50

Trees and Shrubs.....	\$	2 50		WEST PARK.
Walks		18 38		
			15 88	
 Trees and Shrubs.....	\$	5 66		STANTON PARK.
Walks		8 25		
			13 91	
 Walks.....	\$	5 76		OWEN PARK.
Water System.....		1 00		
General Improvements		853 11		
			859 87	
 Trees and Shrubs.....	\$	8 00		CAPITOL PARK.
Walks		217 19		
			225 19	
 Trees and Shrubs.....	\$	8 84		HARMONIE PARK.
Walks		3 00		
			11 84	
 Trees and Shrubs.....	\$	7 83		ELTON PARK.
Walks		5 25		
			13 08	
 Trees and Shrubs.....	\$	7 50		CITY HALL LAWN.
General Improvement		3,039 39		
			3,046 89	
 Trees and Shrubs.....	\$	71 00		GRAND CIRCUS PARK.
Walks.....		96 00		
			167 00	
 Trees and Shrubs.....	\$	15 00		CASS PARK.
Walks		70 05		
			85 05	
 Trees and Shrubs.....	\$	158 23		PERRIEN PARK.
General Improvements		12 36		
Water System.....		421 45		
			592 04	
 TOTAL CITY PARKS IMPROVEMENTS.....	\$	7,868 46		

Salaries, Officers, Etc.....	\$ 5,391 66		ADMINISTRATION.
Printing, Stationery, Etc.....	689 73		
Office Rent, Etc.....	1,515 33		
Telephones.....	45 89		
		7,642 61	
Purchase of Property at corner of Baker.	550 00		BOULEVARD RIGHT-OF-WAY.

CITY CONTROLLER'S OFFICE.
DETROIT, July 5, 1899.

Hon. M. P. Hurlbut,

Sec. and Gen'l Mngr. Park and Boulevard
Commission, City :

DEAR SIR :

I hereby certify that the cash balance to the
credit of the Boulevard right of way fund
at the close of business June 30, 1899, was. \$857.86

And that the cash balance to the credit of the
Park and Boulevard Fund at the close of
business June 30, 1899, was.....\$353.03

Respectfully,

HOWARD C. BECK,

Deputy Controller.

RECAPITULATION.

PARK AND BOULEVARD FUND.

Park and Boulevard Fund, Cash Bal., July 1, '98.	\$	8,245 76
Total Cash Receipts		129,527 66

EXPENDITURES.

Belle Isle Maintenance.....	\$	56,684 31
Belle Isle Improvements.....		15,678 32
Boulevard Maintenance		13,195 74
Boulevard Improvements		10,841 33
Palmer Park Maintenance.....		4,003 55
Palmer Park Improvements.....		11,132 56
City Parks Maintenance		10,057 85
City Parks Improvements		7,868 46
Nursery Maintenance.....		315 66
Administration.....		7,642 61
Cash Balance		353 03
	\$	137,773 42
		137,773 42

BOULEVARD RIGHT-OF-WAY FUND.

Cash Balance July 1, 1898	\$	1,357 86
---------------------------------	----	----------

EXPENDITURES.

Purchase Property corner Baker	\$	550 00
Cash Balance		807 86
	\$	1,357 86
		1,357 86

The expenditure for the Maintenance and Permanent Improvements for a series of years has been as follows :

	Maintenance and Administration.	Permanent Improvements.	Boulevard Right-of-Way.
1889.....	\$ 37,295 18	\$ 60,986 01	
1890.....	48,221 86	123,192 03	
1891.....	73,821 74	105,285 42	\$ 99,477 84
1892.....	81,747 03	307,026 95	108,982 40
1893.....	86,923 35	298,140 24	842 45
1894.....	82,605 74	218,394 17	
1895.....	80,304 50	84,828 39	4,739 06
1896.....	78,440 38	103,085 26	33 00
1897 (to June 30).....	31,884 12	7,315 53	
1897-8, Fiscal Year.....	83,127 16	49,884 85	800 00
1898-9, Fiscal Year.....	91,899 72	45,520 67	550 00
	<u>\$776,270 78</u>	<u>\$1,403,659 52</u>	<u>\$215,424 75</u>

The Expenditures for Maintenance for each Department for a series of Years :

	Belle Isle. Maintenance.	City Parks. Maintenance.	Boulevard. Maintenance.	Admin- istration.
1889.....	\$ 23,354 84	\$ 2,155 92	\$ 5,149 73	\$ 6,634 69
1890.....	28,723 85	5,212 50	7,501 60	7,783 91
1891.....	46,773 96	10,216 77	10,354 97	6,476 04
1892.....	48,244 79	11,636 62	11,411 85	10,453 77
1893.....	62,085 44	7,385 39	4,570 67	12,881 85
1894.....	52,652 10	8,221 78	12,464 92	9,266 94
1895.....	51,661 63	7,170 95	10,841 97	9,030 33
1896.....	49,222 54	10,242 97	9,979 56	9,005 31
1897 (to June 30)....	21,445 16	4,742 26	3,019 20	2,677 50
1897-8, Fiscal Year..	62,140 10	12,260 00	10,050 59	8,790 87
1898-9, Fiscal Year..	56,684 31	14,569 25	13,195 74	7,642 61
	<u>\$502,988 71</u>	<u>\$ 93,814 41</u>	<u>\$ 98,540 80</u>	<u>\$ 90,693 82</u>

The Expenditure for Improvement for each Department for a series of Years :

	Belle Isle Improvements.	City Parks. Improvements.	Boulevard. Improvements.	Boulevard Right-of-Way.
1889.....	\$ 59,562 30		\$ 1,423 71	
1890.....	117,629 88	\$ 2,782 79	2,779 36	
1891.....	85,323 70	13,927 03	6,034 69	\$ 99,477 84
1892.....	34,393 96	4,083 51	268,549 48	108,982 40
1893.....	96,602 05	5,897 67	195,640 49	842 45
1894.....	106,715 95	8,088 43	103,589 79	
1895.....	43,010 78	12,080 99	35,757 78	4,739 06
1896.....	30,318 42	10,198 94	53,567 90	33 00
1897 (to June 30)....	6,436 59	613 31	265 63	
1897 8, Fiscal Year..	1,576 91	28,236 48	20,071 59	800 00
1898-9, Fiscal Year..	15,678 32	19,001 02	10,841 33	550 00
	<u>\$597,248 86</u>	<u>\$113,910 17</u>	<u>\$698,521 75</u>	<u>\$215,424 75</u>

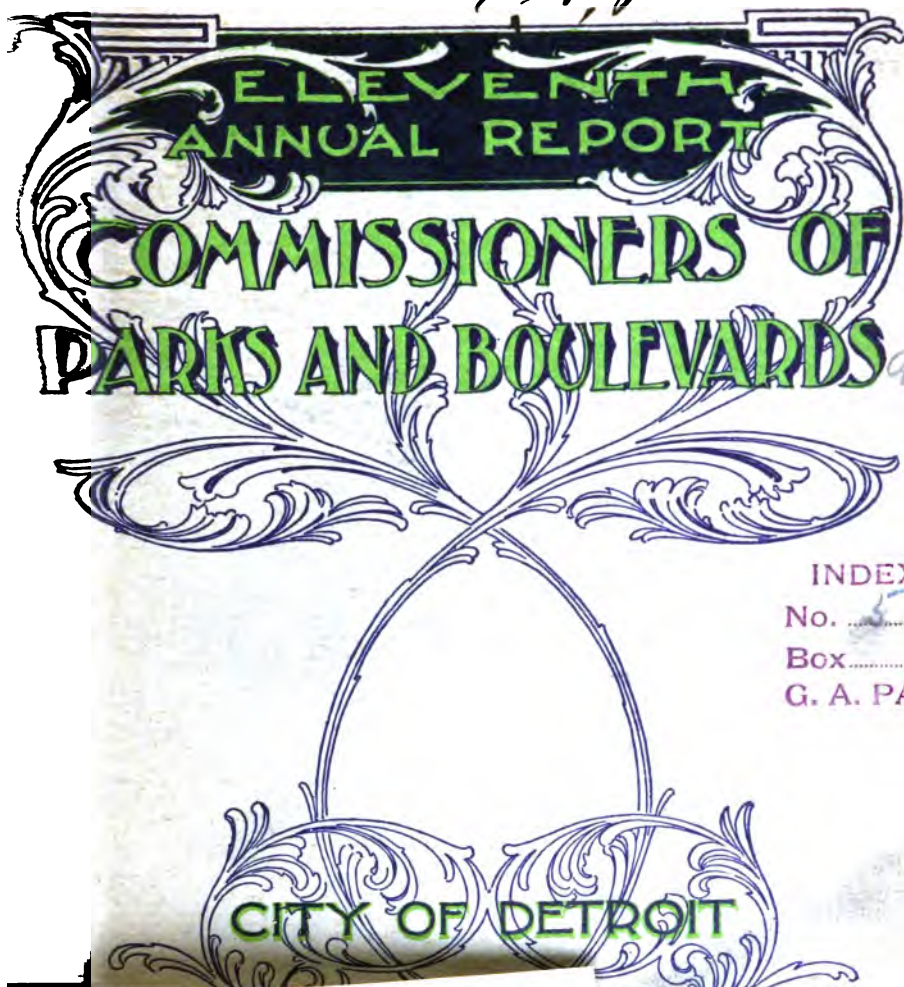
PARK AND BOULEVARD
SYSTEM.

NAMES	LOCATIONS	ACREAGE
Belle Isle—Island in Detroit River.....		700.000
Boston Park Way—Boston Boulevard.....		2.440
Chicago Park Way—Chicago Boulevard.....		2.440
Cadillac—Cadillac Sq., Campus Martius to Randolph.....		.970
Campan—Campan, Mullett and Clinton Sts.....		4.966
Capitol—Griswold, State and Rowland Sts.....		.510
Cass—Cass Ave., Ledyard and Baggs Sts.....		1.199
City Hall—Woodward Ave., Fort and Michigan.....		.550
Clark—Dix, Scotten, Howard and Clark Sts.....		24.731
Clinton—St. Antoine, Mullett and Raynor Sts.....		1.068
Crawford—Fifth and High Sts. W.....		.746
Elton—Fifth and Orchard Sts.....		.740
Grand Circus—Woodward, Adams, Park and Witherell.....		5.566
Harmonic—Randolph, Center and North Sts.....		.448
Macomb—17th, 18th and Rose Sts.....		.557
Medbury—Medbury Ave., John R. to Rivard St.....		3.440
Opera House—Woodward and Monroe Aves.....		.174
Owen—Jefferson Ave. and River.....		3.900
Palmer—Woodward Ave.....		133.400
Perrin—Chene, Grandy, Hancock and Warren Aves.....		5.180
Recreation—Brush, Brady to Alexandrine Ave.....		1.290
Second Ave. Park Way—Second Ave.....		1.110
Shakespeare Park Way—Shakespeare Esplanade.....		1.640
Schiller Park Way—Schiller Esplanade.....		1.640
Stanton—17th, 18th and Porter Sts.....		.695
Voigt—Schiller and Shakespeare Esplanades.....		9.601
West—State and Park Place.....		.744
Washington—Washington, Michigan to Park St.....		2.862
Boulevard.....		212.837

TOTAL (28 PARKS AND THE BOULEVARD) 1,125.444

Boulevard Mileage..... 11.29

C. A. Parker 1 up



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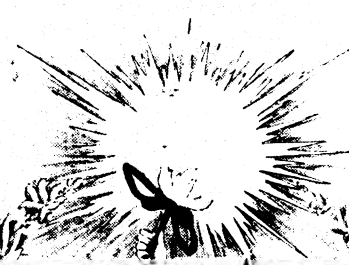
Box *67*

G. A. PARKER

CITY OF DETROIT

1900 -

1238



ELEVENTH ANNUAL REPORT



COMMISSIONERS OF PARKS AND BOULEVARDS

A. W. BLAIN, PRES.

TERM EXPIRES MAY 31, 1903.

EDW. C. VAN LEYEN, VICE-PRES.

TERM EXPIRES MAY 31, 1902.

WILLIAM GEIST,

TERM EXPIRES MAY 31, 1903.

P. H. A. BALSLEY,

TERM EXPIRES MAY 31, 1904.

M. P. HURLBUT, SEC'Y & CLERK.

R. J. CORTELL, GEN. SUPT.

WILLIAM BELLER

FROM
JULY 1

1899.

CITY OF DETROIT

TO
JUNE 30

1900, INCLUSIVE.



CHILDREN'S DAY, MAY 26, 1900—BELLE ISLE PARK.

Our Parks. * * *



THE PLEASURE GROUNDS OF THE WIDELY FAMED CITY OF THE STRAITS, CONTAIN HUNDREDS OF ACRES, DIVERSIFIED TO A STRIKING DEGREE. THEY ARE PECULIAR TO THEMSELVES, WITH THEIR NATURAL FORESTS AND PICTURESQUE DRIVES. WARBLING BIRDS DARTING EVER AND ANON THROUGH THE SWAYING BRANCHES; SHADY NOOKS; RAMBLING WALKS; FRAGRANT FLOWERS; CLINGING VINES AND SLOPING BANKS FRINGED BY THE DEEP AND WAVING CURRENT OF THE NOBLEST OF RIVERS, DELIGHT THE EYE, CHARM THE EAR AND FILL THE SOUL WITH INEFFABLE HAPPINESS.

THOUSANDS ARE BECKONED FROM THE SCORCHING CITY STREETS TO THE COOL RETREATS FOUND AMONG THE FERNS AND MOSSES OF THE GREEN AND PLEASANT WOODLAND, WHILE IN THE GENTLE STILLNESS OF THE SUMMER EVENING AMID THE GLORIES OF THE TWILIGHT SCENE, MANY LOVERS OF THE BEAUTIFUL AND SUBLIME FOLLOW THE WINDING PATHWAYS AND LISTEN ENRaptured TO THE VESPER HYMN OF WEARY NATURE, OR IDLY DRIFT IN SOME TINY BARK ON THE BOSOM OF THE RESTLESS WATERS.



Park Commissioners,

1871-1900.

PARK COMMISSIONERS UNDER THE ACT OF 1871.

G. V. N LOTHROP,	ROBERT P. TOMS,	A. SMITH BAGG,
JOHN J. BAGLEY,	MERRILL I. MILLS,	WM. A. BUTLER,
CHAS. I. WALKER,	CHAS. C. TROWBRIDGE.	



PARK COMMISSIONERS APPOINTED IN 1879 BY MAYOR LANGDON.

THEO. CHAPOTON,	W. K. MUIR,	JOHN PRIDGEOON, JR.
AUGUST GOEBEL,	E. F. CONELY,	WM. B. MORAN.



BOARD OF BELLE ISLE PARK COMMISSIONERS ORGANIZED SEPTEMBER 6, 1881.

NAMES.	Appointed.	Expiration of Terms.	REMARKS.
MERRILL I. MILLS.....	Aug. 30, 1881...	Aug. 31, 1882..	
AUG. MARXHAUSEN.....	Aug. 31, 1881...	Aug. 31, 1883..	Re-appointed.
WM. A. MOORE.....	Aug. 30, 1881...	Aug. 31, 1884..	Re-appointed.
JAS. McMILLAN	Aug. 30, 1881...	Aug. 31, 1885..	Resigned 1884. D. M. Ferry appointed for un- expired term.

NAMES	Appointed.	Expiration of Term.	REMARKS.
WM. B. MORAN	Sept. 1, 1882...	Aug. 31, 1886..	
AUG. MARXHAUSEN.....	Sept. 1, 1883...	Aug. 31, 1887..	
DEXTER M. FERRY.....	Feb. 15, 1884...	Aug. 31, 1885..	Filling unexpired term of Jas. McMillan.
WM. A. MOORE.....	Aug. 31, 1884..	Aug. 31, 1888..	Resigned 1887. E. T. Slocum appointed for unexpired term.
JOS. A. MARSH.....	Jan. 22, 1886...	Aug. 31, 1889..	
ELLIOTT T. SLOCUM.....	Mar. 22, 1886...	Aug. 31, 1888..	Filling unexpired term of Wm. A. Moore.
FRED. L. SEITZ.....	Oct. 8, 1886...	Aug. 31, 1890..	Resigned 1888. F. F. Palms filling unexpired term.
FRANCIS ADAMS.....	Aug. 12, 1887...	Aug. 31, 1891..	Resigned in 1888.
FRANCIS F. PALMS.....	Aug. 1, 1888..	Aug. 31, 1890..	Filling unexpired term of F. L. Seitz, resigned.
AUG. MARXHAUSEN.....	Aug. 1, 1888...	Aug. 31, 1891..	Filling unexpired term of F. Adams, resigned.
ELLIOTT T. SLOCUM.....	Sept. 5, 1888...	Aug. 31, 1892..	

Under the Act of May 8, 1889, abrogating the Belle Isle Park Commission, the Commissioners of Parks and Boulevards was organized with four provisional Commissioners, HENRY M. DUFFIELD, ELLIOTT T. SLOCUM, FRANCIS PALMS and WM. B. MORAN, who were succeeded by the following

COMMISSIONERS OF PARKS AND BOULEVARDS:

NAMES.	Appointed.	Expiration of Term.	REMARKS.
GEO. H. RUSSELL.....	May 21, 1889...	May 31, 1890..	Served until Jan. 9, 1891
JOHN ERHARD.....	May 21, 1889...	May 31, 1891..	
WM. LIVINGSTONE, JR..	May 21, 1889...	May 31, 1892..	Re-appointed.
WM. K. PARCHER.	May 21, 1889...	May 31, 1893..	
FRED. A. BAKER.....	Jan. 9, 1891...	May 31, 1894..	Resigned May 3, 1892. S. Baldwin appointed for unexpired term.
STEPHEN BALDWIN.....	May 3, 1892...	May 31, 1894..	Resigned Nov. 15, 1892. James E. Scripps appointed to fill unexpired term.
JAS. E. SCRIPPS.....	Nov. 15, 1892...	May 31, 1894..	Re-appointed.
FRED GUENTHER.....	August, 1892...	May 31, 1895..	

NAMES.	Appointed.	Expiration of Term.	REMARKS.
WM. LIVINGSTONE, JR...	May, 1892...	May 31, 1896..	Resigned Nov. 28, 1893. Aug. Marxhausen appointed to fill unexpired term.
AUG. MARXHAUSEN.....	Nov. 28, 1893...	May 31, 1896..	Declined to serve.
GEO. C. WETHERBEE...	Jan. 9, 1894...	May 31, 1896..	Filling unexpired term of Wm. Livingstone, Jr.
CHAS. K. LATHAM.....	May 31, 1893...	May 31, 1897..	Resigned Dec. 31, 1896. James A. Randall appointed to fill unexpired term
JAS. E. SCRIPPS.....	June 5, 1894...	May 31, 1898..	Resigned March 1, 1896. A. S. Parker appointed to fill unexpired term.
CARL SCHWEIKART.....	June 11, 1895...	May 31, 1899..	Resigned June 13, 1898. Wm. Geist appointed to fill unexpired term.
ARTHUR S. PARKER.....	Mar. 1, 1896...	May 31, 1898.	Filling unexpired term of Jas. E. Scripps.
P. H. A. BALSLEY.....	June 1, 1896...	May 31, 1900..	Re-appointed.
JAS. A. RANDALL.....	Jan. 12, 1897...	May 31, 1897..	Filling unexpired term of C. K. Latham.
BENJ. R. HOYT.....	June 22, 1897...	May 31, 1901..	Resigned June 28, 1898. A. J. Murphy appointed to fill unexpired term.
EDWARD C. VANLEYEN..	June 6, 1898...	May 31, 1902..	
WM. GEIST.....	June 13, 1898...	May 31, 1899..	Filling unexpired term of Carl Schweikart and re-appointed.
ALFRED J. MURPHY.....	June 28, 1898...	May 31, 1901..	Resigned April 11, 1899.
ALEXANDER W. BLAIN..	Apr. 18, 1899...	May 31, 1901..	To fill unexpired term of A. J. Murphy.
WM. GEIST.....	May 31, 1899...	May 31, 1903..	
P. H. A. BALSLEY.....	May 31, 1900...	May 31, 1904..	



CLARK PARK LAKE IN WINTER.

Commissioners of Parks and Boulevards



To the Honorable the Common Council, City of Detroit :

GENTLEMEN—In accordance with the statutory provision in the Act of the Legislature creating the Commissioners of Parks and Boulevards, this, the eleventh annual report, for the fiscal year of 1899 and 1900 (commencing July 1, 1899 and ending June 30, 1900, both days inclusive) is herewith presented for your consideration. It contains a general synopsis of the work accomplished with the appropriation allotted to the Park and Boulevard system, together with a more minute summary of maintenance and improvements in the several departments, and general information regarding the work in each park, as set forth in the General Superintendent's report, also general statistics and detailed account of receipts and disbursements in tabulated form by the Secretary and General Manager, showing not only the expenditures of the past fiscal year but from the time of the first appropriation for park purposes in 1854 to the end of the fiscal year just past, also the estimates asked, appropriations allowed, bonds issued, etc.



BELLE ISLE CASINO.

MEMBERSHIP OF THE BOARD.

The Board consists of four Commissioners, who serve gratuitously for a term of four years from June 1st, one being appointed by the Mayor of the City and confirmed by the Common Council each year.

Hon. P. H. A. Balsley was reappointed commissioner to succeed himself on June 5, and qualified and took his seat Monday, June 11, 1900.

ORGANIZATION.

The annual meeting of the Board is held on the first regular meeting day in June for the election of a President and Vice-President and the appointment of standing Committees.

The organization of the Board at the meeting held *June 11, 1900* resulted in the election of A. W. BLAIN, President, and EDWARD C. VANLEYEN, Vice-President, and the appointment by the President of the following Standing Committees:

Claims and Accounts, Commissioners VanLeyen and Geist.

Building, Commissioners VanLeyen and Balsley.

Belle Isle, Commissioners Geist and VanLeyen.

Boulevard, Commissioners Balsley and VanLeyen.

Palmer and City Parks, Commissioners Balsley and Geist.

Music, Commissioners Geist and VanLeyen.

Horticultural, Commissioners Balsley and Geist.

Zoo and Animals, Commissioners Geist and VanLeyen.

Each fiscal year the Board is represented by two Presidents and two Vice-Presidents on account of the retiring Commissioner's term expiring May 31st and the organization of the new Board in June, while the fiscal year closes June 30th. During the fiscal year just closed the Board and officers were as follows:

From June 19, 1899	{	P. H. A. BALSLEY, President.
to June 11, 1900,		A. W. BLAIN, Vice-President.
	{	EDWARD C. VANLEYEN,
		WM. GEIST.
From June 11, 1900	{	A. W. BLAIN, President.
to June 30, 1900,		EDWARD C. VANLEYEN, Vice-President.
	{	WM. GEIST.
		P. H. A. BALSLEY.



BELLE ISLE BARNS AND EMPLOYES STARTING TO WORK AT 8 A. M.

BONDS.

Park improvement bonds to the amount of \$150,000 were, in accordance with an act of the legislature, and upon a vote of the people, advertised and sold by the City Controller to the highest bidder at a premium of \$9,811.00, for the improvement of Belle Isle Park by first erecting and equipping a combined aquarium and horticultural building and should a surplus remain, it shall be used in constructing zoological buildings, etc.

AQUARIUM AND HORTICULTURAL BUILDING.

The Board in December, 1899, appointed a Committee consisting of the Building Committee and the Secretary to make a trip of investigation to cities where aquaria and horticultural buildings could be examined and a report made to the end that the Board might determine the requirements of such buildings. The Committee reported in January, 1900, in detail, recommending that the structure be a combined building and that the aquarium be built beneath the horticultural building and that it be located on the south side of Belle Isle Park, near Inselruhe Road.

The Board invited a committee of citizens to act as an advisory committee in selecting the site for the building and also a committee of three members of the Michigan Chapter of the American Institute of Architects to act with the Board in formulating a code of competition for designs for the building. The citizens committee and committee of architects together with the Board met at Belle Isle Park, February 3, 1900, and unanimously agreed upon the site recommended by the committee who made the tour of investigation.

ASSESSMENTS.

A special assessment was spread upon Boulevard property for sidewalks laid by the Board in conformity with the pro-

visions of an Act amending an Act to provide for the establishment and maintenance of the Boulevard, approved May 29, 1893, as follows :

Lots 1, 2, 3, 4, 5, 6 and 7 on south side of the Northern Grand Boulevard, west of Hamlin & Fordyce's Sub. of out lot 1 of Sub. of rear part P. C. 27; also lots 6, 7, 8 and 9 of Mandlebaum's Sub. of E. part of Frac. Sec. 36 and E. part of Frac. Sec. 1, and also northerly 2.76 acres of out lot 25 of south part of Thompson farm, north of Grand River Avenue.....	\$152 46
Lots 60 and 61 south side Northern Grand Boulevard west of Herbert L. Baker's Sub. of lot 2 of James Messmore's Sub., Frac. Sec. 1, T. 2, S. R. 11 E., and easterly part of Frac. Sec. 36, T. 1, S. R. 11 E., except 210.64 feet.....	72 00
South side Northern Grand Boulevard, west "School Lot" described as beginning in the center of Holden and Messmore Roads, thence along the center of Messmore Road, south 33°, east 312.18 feet to a post in the east line of Frac. Sec. 2, thence north on said Frac. Sec. line to south line of Ten Thousand Acre Tract, Thence 54° west along south line of Ten Thousand Acre Tract 182 8 feet to beginning, except part taken for Boulevard.....	72 00
North side Northern Grand Boulevard west, lot 1, Norton & Beardsley's Sub. of south 299.75 feet of east 1,660.56 feet of Quarter Sec. 53, Ten Thousand Acre Tract.....	64 45
	\$360 91

ACQUISITIONS.

Hon. Thos. W. Palmer generously presented to the City of Detroit, a parkway entrance to Palmer Park, from Woodward Avenue, containing seven and one one-hundredth acres of land with a frontage on Woodward Avenue of six hundred eighty-four and forty-two one-hundredths feet. When the roadway and other improvements are made on this parkway, such as landscaping, etc., it will add much to the pleasure of the sightseers who avail themselves of the delightful drive out Woodward Avenue and through Palmer Park.



SCENE ON BELLE ISLE.

In order to straighten the Boulevard property line, there were several pieces of property required, which were obtained by gift or purchase, as follows :

A strip of land at the south-east corner of Baker Street and the Western Grand Boulevard. 2 feet front on Baker and running south from Baker to the alley along the Boulevard was presented to the city by the heirs of Bela Hubbard.

A strip of land at the north-east corner of the intersection of Frontenac and the Eastern Grand Boulevard 50 feet by 127 was purchased for \$1,800.

A triangular strip of land on the east side of the Western Grand Boulevard between Toledo Avenue and the M. C. R. R. was purchased for the sum of \$1,500.



BRIDGE NO. 14, BELLE ISLE PARK.

A triangular strip of land on the west side of the Western Grand Boulevard, between Toledo Avenue and the M. C. R. R. was purchased for the sum of \$1,300, making a total of \$4,600, \$807.86 of which was paid out of the Boulevard right-of-way fund, and the balance \$3,792.14 was, by direction of your honorable body, paid from the contingent fund of the city.

BAND CONCERTS.

The number of people visiting the parks has, unquestionably, largely increased during the past year, and it is believed the increase is due partially to the open air concerts, which called multitudes from the hot, dusty streets to the parks where they were not only entertained by refined and pleasing music, but enjoyed an outing in the fresh open air.

It was not uncommon for hundreds of families and parties to make special arrangements to meet in the picnic groves on band concert afternoons, where they could enjoy a picnic outing, and at the same time, the music.

The concerts have been given in nearly all of the parks, but principally in Belle Isle and Clark Parks, as some of the parks in the central part of the city were too small to accommodate the large number of people who congregated to hear the music.

There were 133 concerts given, as follows :

47	In Belle Isle Park.
36	" Clark Park.
20	" Palmer Park.
10	" Washington Parkway.
10	" Cass Park.
3	" Perrien Park.
3	" Campau Park.
2	" Crawford Park.
2	" Medbury Park.

PLAY GROUNDS FOR SMALL CHILDREN.

Much time, thought and money have been given in some of the eastern cities to play grounds for children. Statistics from Boston and New York show that much good has been accomplished, the grounds affording the children outdoor recreation as well as healthful exercise. Your attention is called to this subject, as it is believed it should be taken up in the near future.

SHADE TREES ON PUBLIC STREETS.

In the last annual report your attention was called to the great injury by insects to the trees along the public streets. The pests have not decreased, but on the contrary, have increased.

The trees on the public streets of this city are the pride of every citizen, and some action by your honorable body should be taken, that the trees may be preserved and the beauty of the city in no way marred.



SHELTER PAVILION, BELLE ISLE PARK.

BELLE ISLE PARK.

The shelter pavilion was completed and opened to the public August 4, 1899. It was estimated there were from 6,000 to 8,000 people in and around the building. The building was popular from the first, and when the athletic field is completed it will be one of the popular spots of Belle Isle Park.

A number of old ice water tanks have been replaced by new and sightly ice water drinking fountains.

Some of the old toilet buildings and rooms have been re-modeled by supplying flushing closets in place of the old and unsanitary earth closets.



ZEBU—SACRED CATTLE.

The road from Belle Isle bridge to the casino on both sides of the loop canal have been resurfaced with broken stone at the remarkably low price of about 60 cents per square yard, a result accomplished by taking the cobble from the public streets, at practically no cost for the cobble, and crushing the same by the crusher owned by the Commission. The attention of your honorable body is especially called to this road and you are requested to make a special examination of the same, to the end that for the years to come, a liberal appropriation may be allowed for the improvement of the roads on Belle Isle Park. [2]

The sheltered dock is fast decaying and at no far distant day it must be replaced either in its present locality or some other. We are of the opinion that a new dock should be built on the south side of Belle Isle Park, near the present Inselruhe dock, and it might be wise to build in connection therewith a casino building of a permanent character, either of stone or brick, which would be so arranged that visitors would have not only a view of the river but of the park, and in the winter it would be in close proximity to the skating lake. The building would be nearer the center of Belle Isle than the present casino and close to the zoological department.



PRAIRIE DOG CAGE.

The money appropriated for bridges would permit of the building of but one. Therefore, Bridge No. 14 was constructed over Nashua Canal, on Vista Avenue.

The zoological department has been somewhat improved by concentration, i. e., the buffalo and elk have been placed in a portion of the deer paddock, thus enabling the public to see them, which improvement is thoroughly appreciated by this department's many visitors.

Of eight ostriches hatched June 29, 1899, three are living and are fine, large specimens. These are the only ostriches ever hatched and reared in a public park.

A prairie dog cage, twelve dogs and two prairie owls have been added to the zoological department, and have proven an attractive feature.

The following is a list of animals now on exhibition at the zoo :

6 Alligators.	7 Owls, various species.
3 Buffalo.	12 Prairie Dogs.
1 Bear, grizzly.	4 Pheasants, silver.
5 " black.	1 " Amherst.
2 Badgers.	7 " ringneck.
2 Chickens, India silky.	3 " golden.
2 " frizzly.	2 " Mongolian.
2 Ducks, mandrin.	3 Peafowls.
2 " wood.	30 Pigeons, various species.
1 " Dunkirk.	5 Raccoons, gray.
20 Deer, Virginia.	20 Rabbits (English hare.)
1 Eagle, bald.	2 Skunks (odorless.)
1 " golden.	6 Swan, white.
5 Elk.	2 Turkeys, white, wild.
3 Geese, wild.	1 Vulture.
2 " Poland.	2 Wolves, timber.
3 Heron, blue.	2 " gray.
1 Lynx (wild cat.)	3 " coyotte.
4 Ostriches.	2 Woodchuck.
2 Owls, prairie.	2 Zebu, Sacred cattle.

The present old green-houses are inadequate for the park system, but this will be remedied as soon as the new range of green-houses is completed.

The number of park phaetons and horses for the transportation of passengers to and from Jefferson Avenue, across the bridge and around the park is far from being sufficient to

care for the large crowds and the increased travel, as shown by the park service registers. The inability of the phaeton service to properly accommodate the public is very annoying, and many complaints have been made.

The bath-house was well attended, considering the condition of the weather. Many thousands patronizing the service.



BEAVER DAM.

The maintenance of Belle Isle Park, as usual, exceeded the appropriation, and some needed improvements were omitted, as the money, of necessity, was used for maintenance purposes. The reports of this Commission show that for the past ten years, money appropriated for maintenance has been insufficient.

The following names were adopted for Belle Isle roads, lakes and canals, and the names of the roads will be posted

along the roadways at the intersections at an early date, that the people may become familiar with them : (See map.)

PLEASURE PLACE—From the east entrance to the bridge near Muir fountain, on the north side of Loop Canal to the ferry dock, so named because it leads to the bath-house and boat-house, which are patronized by thousands of pleasure seekers.

SUNSET DRIVE—From the west side of the bridge near Muir fountain, around the west end of Belle Isle to the outlet of the canal at the south-west corner of the island ; so named because a fine view of the setting sun can be had.

CASINO WAY—From the west end of the bridge near Muir fountain, south, past the casino, around to Sunset Drive, including the roadway up to the west side of the bridge over the Loop Canal south of Central Avenue bridge ; so named as it is the direct road from Belle Isle bridge to the casino.

MUSE ROAD—From the south approach to Belle Isle bridge, south on the east side of the Loop Canal to the intersection of the road at the bridge south of Central Avenue bridge, being the direct road from Belle Isle bridge to where the people congregate to hear the band concerts ; so named in honor of the fabled goddess of music.

CENTRAL AVENUE—From west to the east end through the center of Belle Isle ; so named because of its location.

RIVERBANK ROAD—From the south approach to Belle Isle bridge, east along the river on the north side of Belle Isle to the bridge at the north-east corner of the island ; so named as it follows along the bank of the river

LAKESIDE DRIVE—From the bridge at the north-east corner of Belle Isle, south to the bridge near the light-house ; so named because of the fine view of Lake St. Clair from this drive.

THE STRAND—From the bridge near the light-house, west along the river to the bridge at the south-west corner of Belle Isle ; so named as it follows the beach the entire length of the island.

PICNIC WAY—From Central Avenue at the rustic drinking fountain, south-east to The Strand, through the picnic grounds ; so named on account of its location:

LOITER WAY—From the east approach of the bridge, south of Central Avenue bridge, east on the south side of the picnic and zoological grounds to Vista Avenue ; so named because of the large number of sightseers who linger along this roadway, viewing the animals and other interesting sights.



PRESENT IRON BRIDGE.

BELLE ISLE PARK.

FORMER RUSTIC BRIDGE.

WAYSIDE PLACE—From the intersection of Muse Road and Loiter Way east, passing the skating pavilion on a circle to Loiter Way ; so named as it is a side road from the main thoroughfare to the skating pavilion.

INSELRUHE ROAD—Running north and south past the police station, zoological grounds and Inselruhe, being the name established many years ago for this road, and meaning island rest.

VISTA AVENUE—From north to south across Belle Isle, passing the shelter pavilion ; so named as it is the only road showing a vista across the island.

TANGLEWOOD DRIVE—From the intersection of Central and Vista Avenues, running east through the wild wood, and connecting again with Central Avenue ; so named as the road is skirted by the natural wild wood and tangled underbrush.

OAK WAY—From Riverbank Road, east to Lakeside Drive ; so named because of the oak trees located along this roadway.

WILDWOOD PASS—From Oak Way, running south to Central Avenue ; so named as the forest is particularly wild through which this road passes.

WOODSIDE DRIVE—From Lakeside Drive near the horse drinking fountain, south-west to The Strand ; so named as the road skirts the forest.

MEADOW ROAD—From Oak Way, running west and connecting with Oak Way again ; so named as the road leads out into the meadow and back again.

SHADOW NOOK—From Central Avenue to Central Avenue, a distance of about 600 feet ; so named on account of the dense shade on this drive.

HERMIT'S PASS—From Tanglewood Drive in the woods, running south, passing over bridge No. 15 ; so named as the road is but little used.

RAMBLE BANK—The roadway or cycle path along the north bank of Nashua Canal from near the shelter pavilion, running east to Woodside Drive ; so named because of the large number of visitors who wander along the banks of the canal.

NASHUA CANAL—The canal leading from Muskoday Lake to Takoma Lake.

LOOP CANAL—The canal which forms part of a circle at the west end of Belle Isle Park.

MARSH RUN—The canal commencing at the first bridge east from Belle Isle bridge on Riverbank Road, and running south-west to Loop Canal.

LAKE MUSKODAY—The lake at the north-east corner of Belle Isle.

LAKE OKONOKA—The lake at the south-east corner of Belle Isle.

LAKE TAKOMA—The lake at the south-west corner of Belle Isle, formerly known as Skating Lake.

PALMER PARK.

In Palmer Park, there has been erected for the nursery department a propagating house, and a fair start in the propagating of trees and shrubs has been made.



The heating plant in the casino has been completed; it works satisfactorily and heats the casino admirably.

Two ice water drinking fountains have been constructed of stone; one in the picnic ground and the other, representing a cave, in the woods on the walk leading from the log cabin to the casino.

The Palmer Parkway entrance from Woodward Avenue to the Park, which Hon. T. W. Palmer presented to the city in 1899, will be open to the public as an entrance to Palmer Park, at an early date.

CLARK PARK.

Clark Park has been more than crowded with visitors the past season; in fact it is patronized more, proportionately, than any other park in the city.

The old toilet building which was arranged for men and women, has been remodeled, and now accommodates only women, and a new toilet building for men has been erected, in addition to which there is a tool house and yard for rubbish nearly hidden by shrubbery.

The skating lake in this park was appreciated as the picture on page 8 of the skaters will attest.

SMALL PARKS.

The small parks, parkways and breathing places, some twenty-five in number have each had some improvement, and all have been cared for as well as possible with the limited fund appropriated for maintenance and care-takers.

BOULEVARD.

The roadways on the Boulevard of necessity must at an early date all be resurfaced, as at the present time in many places the surface is gone and the foundation stones are working up through the roadway, causing the public to continually complain. The attention of your honorable body was called to the number of square yards in the Boulevard and Park roadways in the last annual report, viz: 377,503.61 square yards of roadway on the Boulevard, a large part of which required resurfacing then, since which time one year has past, and now, more of it requires resurfacing.

There are several sections of the Boulevard yet uncompleted. The eastern roadway from Gratiot to Mack Avenue, and the western roadway between Grand River Avenue and Buchanan Street, and also all of that section of the Boulevard from Buchanan to Myrtle Street. It would seem wise to improve some one section, or at least a portion of a section each year.

The Boulevard is each year becoming more popular and necessarily the cost of maintenance must increase. It is sincerely hoped that the money asked for maintaining, not only for the Boulevard, but the entire system, in the annual estimates will be allowed, as it is not economy to improve any portion of the system unless the same is properly maintained.

At a regular meeting of the Board held May 7, the Secretary and General Manager requested the Board to set aside a day to be known as "Children's Day" on Belle Isle Park and that some simple form of entertainment be



ICE WATER DRINKING FOUNTAINS—PALMER PARK.

given; and after due and careful consideration, the Board determined to inaugurate such a day, and the Secretary was directed to carry the same into effect, and on Saturday, May 26, Children's Day was held on Belle Isle. It was estimated that there were not less than 100,000 present, the majority being children. The entertainment consisted of a May pole and other fancy dances by little children on a raised platform. The unfurling of an American flag by a little girl was the signal for thousands of children to sing America. Three hundred and sixty-five balloons were sent up by as many children, representing the days of the year. A band concert followed which concluded the exercises of the day. A tent for lost children was provided in which 183 children were cared for; at 7.30 P. M. all had been returned to their parents, and no accident marred the pleasure of the day.

The Mayor of our city suggested that the day be celebrated annually on some fixed day other than Saturday, and that it be made a legal holiday. It is earnestly hoped by this Board that your honorable body will set aside a day in May to be a holiday known as "Children's Day."

THE POLICY OF THE COMMISSION.

The policy of the Commission has been strictly adhered to, i. e., that the parks shall always be open to all citizens on absolutely equal terms; special privileges to no one, nor the use of the parks for any purpose not practically common to all, and consistent with the proper use of public parks.

CONCLUSION.

The parks are growing in popularity and in importance and the crowds visiting them are yearly increasing in numbers. Each improvement requires attention, all of which means maintenance; therefore your honorable body is re-

quested to carefully consider this matter in granting the yearly appropriations, and if in your judgment, the estimates asked must be reduced, reduce them in the amount asked for improvements, but in any event, grant the money asked for maintenance, for what is the use of making improvements unless they can be maintained.

O. A. Farwell, botanist of this city, who has made considerable study of plant life about our parks and city, has furnished this Board with a list of native plants, most of which are found on the park system, and will appear as a part of this report.

The General Superintendent's report and the Secretary and General Manager's report are both included as a part of this report.

Respectfully submitted,

A. W. BLAIN, *President.*

EDW. C. VAN LEYEN, *Vice-Pres.*

WILLIAM GEIST,

P. H. A. BALSLEY.

M. P. HURLBUT,

Sec'y and Gen'l Mn'g'r.

General Superintendent's Report

*To the Honorable, the Commissioners of Parks and
Boulevards:-*

GENTLEMEN: The following report will give in detail the main points of the work accomplished during the past fiscal year.

Owing to insufficient appropriations for the previous year, much work was left undone, thereby causing an increased cost in putting the parks in condition during the first two months of the present fiscal year. The general aim has been to keep the entire system in a neat and tidy condition and to that end careful attention was given to resodding the worn out places in the down town parks as fast as they appeared; to the more thorough sprinkling of driveways; the cutting out of the dead and unsightly branches from the old trees besides the many small details which add to the comfort and convenience of the public. There is still great need for improvements along this line and a lack of funds to meet the ever increasing requirements of a rapidly growing system makes it necessary to limit such improvement and care more than what is consistent with the standard set by this well kept city.



SCENE—BELLE ISLE.



THE NEW WAY.

THE OLD WAY.

ENGINEERING DEPARTMENT.

Besides giving the levels and grades for the sidewalk laid on the Boulevard, surveying, verifying deeds and descriptions of property acquired to straighten the Boulevard line and the general engineering work of the system, great progress has been accomplished in the re-survey of Belle Isle Park, which map is now being bound in book form, which will include when finished not only the surface contour but the underground systems of water, sewer, electric light and telephone conduits, etc. Much of this information has been fragmentary or entirely lacking and it is none too soon that such data be permanently recorded and it is at this time no small task to obtain this knowledge.

A map of the Boulevard in book form has been prepared during the past year. Some progress has been made in obtaining the data of the water supply and location of sewers in the older of the city parks, and it is desirable that during the coming year, maps of the city parks be made in book form.

GREEN-HOUSE DEPARTMENT.

It being necessary to continue work in the present range of greenhouses the center benches of two more houses were removed and the space given for the storage of the palms. This limits the growing of such bedding plants as take up considerable room during the winter, in place of which the stock of seedlings has been largely increased, thus allowing the same amount of planting as heretofore. It is too early to give the exact number of plants raised, but a close estimate would be 350,000 flowering plants, which have been set out on the parks and boulevards. A system of examination for workmen in the floricultural and horticultural lines inaugurated by your Board, which carries with it increased pay over ordinary labor is proving very satisfactory and it is believed that the work will be done better and more economically than heretofore.

BELLE ISLE PARK.

Every endeavor was made to keep the park in condition to sustain the wear and tear of daily use by thousands of people. Certain portions of the lawn received a dressing of manure early in the winter and many portions were re-seeded during the spring. The watering of lawns during the dry season was extended to include the trees in the picnic ground; the beneficial effect of which was readily seen in the foliage during the latter part of the season.

The drives and lawns at the Belle Isle bridge approach were completed as far as the money appropriated would allow. The resurfacing of the roads was extended from the Belle Isle bridge approach to Central Avenue on Muse Road; and on Casino Way, from bridge No. 2, over Loop Canal to near the Casino. It was necessary in doing this work to remove a considerable portion of the gravel from the road and replace it with slag and cinders for sub-foundation. The roads made with this system of slag for foundation covered with coarse crushed stone with its proper amount of surfacing is proving most satisfactory; the driving over these roads is equal to that of almost any street in the city and they are withstanding it in the best possible manner.

The \$500 allowed for purchase and planting of trees and shrubs was entirely used in planting, the material coming from the nursery on Belle Isle Park. The lawns at the North Belle Isle bridge approach were heavily planted to shut from view the buildings on either side of the driveway, that the entrance to the bridge might have a more park-like appearance. Considerable planting was also done around the stone and iron bridges and at the north end of Vista Ave. all of which planting produced a wonderful change in the appearance of the various places planted in proportion to the small amount of money expended.

The funds for the improvements of grounds around the shelter pavilion were used principally in making roadways

besides a large amount of grading was done, the canal in front excavated but at present the landscaping was left unfinished.

Three new ice water drinking fountains were built in the picnic grounds, the work being about completed at this date.

Considerable improvement was made in the water system by adding more connections along Central Avenue thus doing away with the stretching of the hose across the driveway. The water system as planned contemplated a hydrant or water connection every 300 feet and as fast as this work is done, much labor will be saved in laying long stretches of hose as is now the custom.



NURSERY PROPAGATING HOUSE.
PALMER PARK.

CARPENTRY DEPARTMENT.

The carpentry department has had a very busy year in making the numerous repairs necessary. Besides strengthening all of the wooden bridges on Belle Isle much work has been done in making over wagons, repairing phaetons, building swings, mending benches, improving Inselruhe, changing stalls in horse barn, strengthening docks, building over the buffalo and elk shelter, general painting and many small repairs too numerous to mention.

PALMER PARK.

Immediately after the Woodward Ave. entrance to the Park came under the control of your Board, work was begun on the roadway. The excavation, sewer connections and tiling were completed before cold weather. The adjacent

laws were plowed and kept cultivated during the remainder of the year to thoroughly rot the sod preparatory to leveling and planting it. The graveling of the roadways was postponed to the coming year.

The botanic garden of Michigan plants ordered by your Board last year was taken up and the ground allotted for the purpose was placed under cultivation. During the spring of this year nearly 200 species of trees and shrubs were planted, it being the intention to commence the collection of the native herbaceous plants as well as to add the species of trees and shrubs not already obtained, as fast as possible.



ICE WATER DRINKING FOUNTAIN,
CLARK PARK.

The open ground between the casino and woods was leveled and seeded. There were planted in this ground about 2,000 trees and shrubs. Plans were made for planting the new entrance and the park adjacent to the new roadways, which work should progress this coming fall.

Extensive planting is needed around the border drive, that it may be established and lend attraction to the road when completed.

The nursery propagating house, built during this year was well filled and did excellent service, although the start was rather late and the need of a storage pit somewhat decreased the output. There were planted from the nursery in the various city parks and boulevards about 6,000 trees and shrubs while about the same number acquired mostly by purchase were set in the nursery to obtain a larger growth before planting. It is yet too early to give definite figures of the plants obtained from the propagating house but it can be said that 20,000 cuttings and about 8,000 herbaceous plants were propagated besides many seedlings.

CLARK PARK.

Beyond the construction and the remodeling of the toilets there was but little work done in the park. The lake bottom was graveled, the roadways repaired, a crushed stone walk laid in place of the roadway on a line with Porter St. and an ice-water drinking fountain constructed. The park is in



WOMANS' LAVATORY—CLARK PARK.

need of extensive border planting to screen it from the heat and dust from the street as well as to hide it from scenes not belonging to park landscape. It is to be hoped that the matter can be taken up at once, the ground prepared and the planting done this coming year that the effect may be obtained as soon as possible.

OWEN PARK.

The work done in this park consisted in filling from the lower terrace toward the river in such a way that there will be a gradual slope.

It is the intention to plant the dock and to that end, the sub soil was removed, a winding driveway filled with slag

and surfaced with gravel was constructed and the remaining ground filled with loam for future planting. The shallow water on either side of the dock should be filled, because at the present time the sewerage collects and the result is most unsanitary and unsightly. It would require 27,000 cubic yards to complete this filling, but were it possible that the area could be sheeted the filling would be done without cost except that necessary for general oversight by offering a free



SWAN HOUSE—PALMER PARK.

dump. The funds allowed the coming year should put the upper part of the park in condition to be of public use.

CASS PARK.

The large trees in this park that were fast going to decay or those that were crowding other and better trees were removed this past winter; the result of this will do much to preserve the trees left standing and will allow a freer circulation of air, better lawns and a much more pleasing effect.

WASHINGTON PARKWAY.

The walks were rearranged in three sections in this parkway and new ones constructed in such a way that the public is now using the walks instead of making the numerous by-paths across the lawns.

The water system was laid in two of the four sections. The larger trees were carefully gone over, the dead and dying limbs removed, hoping to preserve the trees although this work is rather late as a few of them are so far gone that they will have to be removed this coming season.

GRAND CIRCUS PARKS.

The walks of East Grand Circus were resurfaced; considerable planting was done and both parks were kept in the neat and attractive condition for which they are well noted.

PERRIEN PARK.

The money appropriated for this park was used in leveling the ground, in adding rich soil, seeding and planting and in surfacing two of the principal walks which run diagonally across the park. About two-thirds of the park is now level and seeded, the remaining portion not being completed because of the impossibility of obtaining good soil at a reasonable figure.

BOSTON BOULEVARD.

As the streets surrounding this parkway were graded preparatory to paving, the water pipes were extended to the parkway. The sub soil removed and the surface soil brought to the desired grade.

VOIGT PARK.

This park being surrounded by farming land at the present time, it was fenced, plowed and the pond extended that the sandy soil on the uplands could be covered with a

clay loam which will insure a better turf when the park becomes of use. During this present spring the park was kept under cultivation and it is hoped that the coming year will see this park nicely leveled, seeded and put to use as a park.

OTHER CITY PARKS.

No one item of improvement need be mentioned here although each was well cared for as far as the appropriation would allow. It is unfortunate that the numerous breathing



MEN'S LAVATORY—CLARK PARK.

places throughout the city are left unguarded throughout the winter and early spring months. The depredations committed at these times largely undo the work of improvement made during the summer. Were these parks given sufficient protection extensive plantations of shrubs and per-

ennial flowers could be made and would add to their beauty and utility, but under the present conditions, it is useless to attempt this additional adornment, as the shrubs are broken, trees uprooted, lawns destroyed, fountains broken and even the soil from the flower beds removed by lawless people.

GRAND BOULEVARD.

The demands of the boulevard were in excess of the amount allowed and many minor improvements were deferred.

The steam road roller was kept constantly at work during seasonable weather and the help necessary to keep the roadway at proper grade more than exhausted the funds allowed for roadway repairs. It was, therefore, impossible to purchase new material for ballast, thus leaving many of the sections in an unsatisfactory condition. What fine crushed stone could be spared when the new section of the roadway near Fort St. was completed was used in these repairs where most required. As soon as the frost was out this present spring the roller was in constant use over the entire Boulevard which work kept the roadways in a much more satisfactory condition than could be expected under the circumstances.

The money allowed for improvement of lawns was utilized in the purchase and spreading of rich loam wherever such soil could be obtained at a reasonable figure and in sodding the lawns in front of the new residences as fast as they were built.

The sidewalk intersections were laid where necessary, in many cases replacing the old, worn out wooden walks.

The fund allowed for the purchase and planting of trees and shrubs was not all used for that purpose as other expenditures on the Boulevard has so depleted the funds that but little could be done in this line.

A brick intersection was laid at the crossing of Porter Street.



THE NEW WAY.

THE OLD WAY.

ENGINEERING DEPARTMENT.

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SUBKINGDOM 1. PTERIDOPHYTA.

ORDER 1. FILICALES.

FAMILY 1. OPHIOGLOSSACEÆ. Adders Tongue Family.

1. BOTRYCHIUM. Swz. Grape Ferns.
 1. obliquum, Muhl. Grassy fields at Linden Park. Rare.

FAMILY 2. OSMUNDACEÆ. Royal Fern Family.

1. OSMUNDA, Lin. Cinnamon Ferns.
 2. regalis, Lin. Royal Fern.
 3. cinnamomea, Lin. Cinnamon Fern.
 4. Claytonia, Lin.

These three ferns are found on low grounds at Linden Park.

FAMILY 3. POLYPODIACEÆ. Fern Family.

1. ONOCLEA, Lin.
 5. sensibilis, L. Sensitive Fern.

Common in moist thickets on Belle Isle and main land.
2. DRYOPTERIS, Adans. Shield Ferns.
 6. Thelypteris, (Lin.) A. Gray. More or less frequent on Belle Isle.
 7. simulata, Davenport. More or less frequent on Belle Isle.
 8. marginalis, (Lin.) A. Gray. In woods at Linden Park. Rare.
3. ADIANTUM, Lin. Maiden-hair Fern.
 9. pedatum, Lin.

Thickets on Belle Isle, more or less frequent.

ORDER 2. EQUISETALES.

FAMILY 4. EQUISETACEÆ. Horsetail Family.

1. EQUISETUM, Lin. Horsetails.
 10. arvense, Lin. Belle Isle, also main land. Common.
 11. pratense, Ehrh. Thickets on Belle Isle. Rare.
 12. fluviatile, Lin. Belle Isle, also main land. Common.
 13. variegatum, Schleich. Sandy shores of Belle Isle. Not common.

SUBKINGDOM 2. SPERMATOPHYTA.

CLASS ANGIOSPERMAE.

SUBCLASS 1. MONOCOTYLEDONES.

ORDER 1. PANDANALES.

FAMILY 1. TYPHACEÆ. Cat-tail Family.

I. TYPHA, Lin.

14. *latifolia*, Lin. Cat-tail. Sandy grounds on Belle Isle. Rare.

FAMILY 2. SPARGANIACEÆ. Bur-reed Family.

I SPARGANIUM, Lin.

15. *eurycarpum*, Engelm. Marshy grounds on Belle Isle. Common.

ORDER 2. PANDANALES.

FAMILY 3. POTAMOGETONACEÆ. Pondweed Family.

I. POTAMOGETON, Lin.

16. *nutans*, Lin. Detroit River. Common.
 17. var. *prolixus*, Koch. Detroit River. Rare.
 18. *alpinas*, Balbis. Detroit River. Not common.
 19. *gramineus*, Lin.,
 P. gramineus. L. var. *graminifolius*. Fries.
 Detroit River. The Common form.
 20. var. *heterophyllus*, (Schreb.) Fries.
 Detroit River, canals on Belle Isle. Not as common as the
 type.
 21. var. *longipedunculatus*. (Merat.)
 P. heterophyllus var. *longipedunculatus*, (Merat.) Morong,
 mem. Tor. Bot. Club, 3 : Pt. 2, 24, 1893. Detroit River.
 Common.
 22. *pelfoliatus*, Lin. Detroit River. Common.
 23. var. *Richardsonii*, A. Bennett. Detroit River, Rare.
 24. *compressus*, Lin.
 P. zosteræfolius, Schum. Detroit River. Common.
 25. *mucronatus*, Schrad. Detroit River; in shallow places near
 shore of main land. Common.
 26. *filiformis*, Pers. Sandy shores of Belle Isle, in shallow water.
 Rare.
 27. *pectinatus*, Lin. With the last, but common.

FAMILY 4. NAIADACEÆ. Naiad or Water Nymph Family.

1. NAIAS, Lin.

28. *flexilis*, (Wild.) Rosth & Schmidt.

Either slender and distantly branched, a foot or more long, or short (two or three inches) and bushy, rigid. Common on sandy shores of Belle Isle in shallow places.

FAMILY 5. ALISMACEÆ. Water Plantain Family.

1. ALISMA, Lin.

29. *Plantago aquatica*, Lin, var. *trivialis*, (Ph.)

A. trivialis, Ph. Fl. Am. Sept. 252. (1814)

Leaves ovate or oval, large (5-6 inches long), obtuse, cordate, 7-9 nerved. The American plant differs from the European in having longer, more slender pedicles and in having smaller flowers, which are white instead of pale rose.

Old race-course. Frequent.

30. var. *parviflora*, (Ph.)

A. parviflora, Ph. Fl. Am. Sept. 1, 253 (1814).

Leaves and flowers smaller; leaves abruptly acutish 3-5 nerved, subcordate or obtuse at base. Vic. Linden Park. Frequent.

2. SAGITTARIA, Lin. Arrowhead.

31. *arifolia*, Nutt. Belle Isle canals, Common,32. *sagittaeifolia*, Lin, forma *latifolia*, (Willd.) Britt. Belle Isle. Common.33. forma *obtusa*, (Wild.) Britt. Belle Isle. Rare.34. forma *hastata*, (Ph.) Britt. Belle Isle. Frequent,35. forma *diversifolia*, (Engelm.) Britt. Belle Isle. Rare.36. forma *angustifolia*, (Engelm.) Britt. Belle Isle. Rare.37. *rigidia*, Ph. In canals on Belle Isle. Common.38. var. *Engelmanni*.

S. heterophylla var. *angustifolia*, Engelm. in A, Gr. Man. Ed. 5, 494, 1867. Not *S. angustifolia*, Lindl. River shores of Belle Isle. Common.

39. *graminea*, Mx. Shores of Belle Isle. Rare.**FAMILY 6. VALLISNERIACEÆ.** Tape Grass Family.

1. VALLISNERIA, Lin. Tape Grass.

40. *spiralis*, Lin. Eel Grass. Belle Isle canals. Frequent.

ORDER 3. GRAMINALES.

FAMILY 7. GRAMINEÆ. Grass Family.

1. ANDROPOGON, Lin. Beard-grass.
 41. furcatus, Muhl. Linden Park. Rare.
2. CHRYSOPOGON, Trin.
 42. avenaceous, (Mx.) Benth. Indian Grass. Linden Park. Rare.
3. SORGHUM, Moench. Broom corn.
 43. Sorghum, (Lin.) Karst. Johnson-grass. Ballast grounds, Detroit. Frequent.
4. PASPALUM, Lin. Joint grass.
 44. setaceum, Mx. Linden Park. Common
5. PANICUM, Lin. Panic Grass.
 45. sanguinale, Lin. Belle Isle. Common.
 46. humifusum, (Pers.) Kunth. Belle Isle Frequent.
 47. Crus-galli, Lin. Barnyard Grass. Belle Isle. Common.
 48. var. muticum, Ell. Ballast Grounds, Detroit. Frequent.
 49. sphaerocarpon, Ell. Linden Park. Common.
 50. commutatum, Schultes. Waste Places, Detroit. Rare.
 51. macrocarpon, Le Conte. Linden Park. Frequent.
 52. Scribnerianum, Nash. Linden Park. Common.
 53. pubescens, Lam. Belle Isle, etc. Frequent.
 54. Columbianum, Scribn. Belle Isle. Common,
 55. liniarifolium, Scribn. Detroit. Frequent.
 56. miliaceum, Lin. Millet. Ballast, etc. Detroit. Common.
 57. capillare, Lin. Belle Isle, etc. Common.
6. CHAETOCHELOA, Scribn. Foxtail Millets.
 58. glauca, (Lin.) Scribn. Belle Isle, etc. Common.
 59. viridis, (Lin.) Scribn. Belle Isle. Common.
 60. Italica, (Lin.) Scribn. Belle Isle. Rare.
 61. var. Germanica, (Mill) Scribn. *Panicum Germanicum*, (Mill.) Gard. Dict., Ed 8, No. 1, 1868. Ballast, etc., Detroit. Rare.
7. CENCHRUS, Lin. Bur Grass.
 62. tribuloides, Lin. Belle Isle, etc. Frequent.
8. ZIZANIA, Lin. Wild Rice.
 63. aquatica, Lin. Marshy grounds, etc., Belle Isle. Frequent.
9. HOMALOCENCHRUS, Mieg.
 64. Virginicus, (Willd.) Britt. White Grass. Woods on Belle Isle. Common.
 65. oryzoides, (Lin.) Poll. Rice Cut-grass. Borders of canals on Belle Isle. Rare.

- 104. *hordeaceus*, Lin. *B. mollis*, Lin. On sandy shores of Belle Isle. Rare.
- 105. *secalinus*, Lin. Belle Isle, etc. Common.
- 106. *racemosus*, Lin. Sandy shores of Belle Isle. Common.

- 28. *LOLIUM*, Lin. Ray or Rye Grass.
 - 107. *temulentum*, Lin. Naturalized on Belle Isle, etc. Rare. Also cultivated.

- 29. *AGROPYRON*, J. Gaertn. Wheat Grass.
 - 108. *repens*, (Lin.) Beauv. Belle Isle. Frequent.
 - 109. var. *agreste*, Anders. Grassy Banks of streets in Detroit. Common.
 - 110. var. *nemorale*, Anders. Waste grounds at Detroit. Common.
 - 111. var. *pilosum*, Scrib. & Sm. Belle Isle, etc. Common.
 - 112. *forma-stoloniferum*. Spikelet not over 5-8 inch in length; empty glumes not more than a half the length of the spikelet all the glumes cuspidate or with an awn equal to half their length. Culms rigidly erect, single; lower sheaths pubescent; leaves flat, smooth on the back, more or less scabrous or short strigose above. Grassy banks at Detroit; Frequent. No. 1634.
 - 113. *forma-geniculatum*. Spikes approaching those of *A. Smithii*; spikelets elongated, $\frac{3}{4}$ of an inch or more long, lowest remote, often an inch and a half apart, empty glumes cuspidate; flowering glumes acute, not awned. Culms geniculate, caespitose, forming mats 6 inches to a foot in diameter; leaves flat, scabrous above, smooth on the back; sheaths smooth equalling or exceeding the internodes. Sides of streets and ditches at Detroit. Frequent. No. 1635.
 - 114. *Smithii*, Rydb. Waste places at Detroit. Common.
 - 115. *caninum*. (Lin.) R. & S. Near Palmer Park. Frequent.

- 30. *TRITICUM*, Lin. Wheat.
 - 116. *aestivum*, Lin. (*T. vulgare*. Vill). Waste places at Detroit. Frequent.
 - 117. var. *hybernum* (Lin.) Sp. Pl. 86-1753. The glumes awnless; common beardless wheat. Belle Isle. Frequent.

- 31. *SECALE*, Lin. Rye.
 - 118. *cereale*, Lin. Frequent on Belle Isle and on waste grounds at Detroit.

- 32. *HORDEUM*, Lin. Barley.
 - 119. *jubatum*, Lin. Squirrel-tail Grass. Waste places at Detroit. Frequent.

33. ELYMUS, Lin. Wild Rye.
 120. striatus, Willd. var. villosus, (Muhl.) A. Gr. Belle Isle. Frequent.
 121. Virginicus, Lin. Belle Isle. Rare.
 122. Canadensis, Lin. Belle Isle. Frequent.
 123. var. glaucifolius, (Willd.) Torr. Near old Race-course at Detroit. Rare.
34. HYSTRIX, Moench. Bottle-brush Grass.
 124. Hystrix, (Lin.) Millsp. In woods on Belle Isle. Common.

FAMILY 8. CYPERACEÆ. Sedge Family.

1. CYPERUS, Lin.
 125. diandrus, Torr. Sandy shores of Belle Isle. Rare.
 126. rivularis, Kunth. Sandy shores of Belle Isle, etc. Common.
 127. esculentus, Lin. var. angustispicatus, Britt. Near Palmer Park. Not common.
 128. strigosus, Lin. Belle Isle, etc. Common.
 129. var. capitatus, Boeckl. Near Palmer Park. Not common.
 130. var. robustior, Kunth. Belle Isle. Frequent.
 131. filiculmis, Vahl. Near Linden Park. Rare.
2. ELEOCHARIS, R. Br. Spike Rush.
 132. obtusa, (Willd.) Schultes. Shores of Belle Isle, etc. Common.
 133. palustris, (L.) R. & S. Sandy shores on Belle Isle. Frequent.
 134. var. glaucescens, (Willd.) A. Gr. Belle Isle and elsewhere. Common.
 135. acicularis, (Lin.) R. & S. Shores of Belle Isle. Frequent.
3. SCIRPUS, Lin. Bulrush.
 136. Americanus, Pers. Shores of Belle Isle. Common.
 137. lacustris, Lin. Shores of Belle Isle. Common.
 138. atrovirens, Muhl. Belle Isle and elsewhere. Common.
 139. var. pallidus, Britt. Vic. Linden Park. Common.
4. ERIOPHORUM, Lin. Cotton Grass.
 140. lineatus, (Mx.) Bth. & Hk. f. Belle Isle, etc. Common.
 141. cyperinum, Lin. Near Palmer Park. Frequent.

- 104. *hordeaceus*, Lin. *B. mollis*, Lin. On sandy shores of Belle Isle. Rare.
- 105. *secalinus*, Lin. Belle Isle, etc. Common.
- 106. *racemosus*, Lin. Sandy shores of Belle Isle. Common.

- 28. *LOLIUM*, Lin. Ray or Rye Grass.
 - 107. *temulentum*, Lin. Naturalized on Belle Isle, etc. Rare. Also cultivated.

- 29. *AGROPYRON*, J. Gaertn. Wheat Grass.
 - 108. *repens*, (Lin.) Beauv. Belle Isle. Frequent.
 - 109. var. *agreste*, Anders. Grassy Banks of streets in Detroit. Common.
 - 110. var. *memorale*, Anders. Waste grounds at Detroit. Common.
 - 111. var. *pilosum*, Scrib. & Sm. Belle Isle, etc. Common.
 - 112. *forma-stoloniferum*. Spikelet not over 5-8 inch in length; empty glumes not more than a half the length of the spikelet all the glumes cuspidate or with an awn equal to half their length. Culms rigidly erect, single; lower sheaths pubescent; leaves flat, smooth on the back, more or less scabrous or short strigose above. Grassy banks at Detroit; Frequent. No. 1634.
 - 113. *forma-geniculatum*. Spikes approaching those of *A. Smithii*; spikelets elongated, $\frac{3}{4}$ of an inch or more long, lowest remote, often an inch and a half apart, empty glumes cuspidate; flowering glumes acute, not awned. Culms geniculate, caespitose, forming mats 6 inches to a foot in diameter; leaves flat, scabrous above, smooth on the back; sheaths smooth equalling or exceeding the internodes. Sides of streets and ditches at Detroit. Frequent. No. 1635.
 - 114. *Smithii*, Rydb. Waste places at Detroit. Common.
 - 115. *caninum*. (Lin.) R. & S. Near Palmer Park. Frequent.

- 30. *TRITICUM*, Lin. Wheat.
 - 116. *aestivum*, Lin. (*T. vulgare*. Vill). Waste places at Detroit. Frequent.
 - 117. var. *hybernum* (Lin.) Sp. Pl. 86-1753. The glumes awnless; common beardless wheat. Belle Isle. Frequent.

- 31. *SECALE*, Lin. Rye.
 - 118. *cereale*, Lin. Frequent on Belle Isle and on waste grounds at Detroit.

- 32. *HORDEUM*, Lin. Barley.
 - 119. *jubatum*, Lin. Squirrel-tail Grass. Waste places at Detroit. Frequent.

- 165. var. *blanda*, (Dew.) Boott. Roadsides on Belle Isle. Frequent.
- 166. var. *varians*, Bailey. In grassy situations on Belle Isle. Common.
- 167. *tetanica*, Schk. var. *Woodii*, (Dew.) Bailey. Near Linden Park. Rare.
- 168. var. *Meadii*, (Dew.) Bailey. Near Linden Park. Rare.
- 169. *digitalis*, Willd. Linden Park. Common.
- 170. *aurea*, Nutt. Linden Park. Common.
- 171. *pedicellata*, (Dew.) Britt. In woods at Linden Park. Common.
- 172. *Pennsylvanica*, Lam. Near Palmer Park. Common.
- 173. *pubescens*, Muhl. In woods on Belle Isle. Frequent.
- 174. *stipata*, Muhl. Low grounds on Belle Isle. Not common.
- 175. *alopecoidea*, Tuckerm. var. *sparsispicata*, Dew. Linden Park. Rare.
- 176. *vulpinoidea*, Mx. In woods on Belle Isle. Common.
- 176 a. *Xanthocarpfa*, Bicknell, Near Linden Park. Rare.
- 177. *rosea*, Schk. Roadsides on Belle Isle. Frequent.
- 178. var. *radiata*, Dew. In woods on Belle Isle. Common.
- 179. *sparganioides*, Muhl. Roadsides on Belle Isle. Common.
- 180. *cephalophora*, Muhl. In woods on Belle Isle. Common.
- 181. *Muhlenbergii*, Schk. Frequent on sterile grounds near Palmer Park, also Linden Park.
- 182. *interior*, Bailey. Marshy grounds on Belle Isle. Rare.
- 183. *Muskingumensis*, Schw. In woods on Belle Isle. Common.
- 184. *tribuloides*, Wahl. Common on low grounds on Belle Isle.
- 185. var. *moniliformis*, (Tuckerm.) Britt. With the species. Common.
- 186. *scoparia*, Schk. Borders of woods on Belle Isle. Frequent.
- 187. *cratatella*, Britt. In woods on Belle Isle. Common.
- 188. *straminea*, Willd. Common on Belle Isle and elsewhere.
- 189. var. *mirabilis*, (Dew.) Tuckerm. With the species. Common.
- 190. var. *ferruginea*, (A. Gr.) Bailey. Near the old race-course. Rare.
- 191. var. *festucea*, (Willd.) Tuckerm. With the species. Common.

ORDER 4. ARALES.

FAMILY 9. ARACEÆ. Arum Family.

1. ARISAEMA, Mart.

- 192. *triphyllum*, (Lin.) Torr. Indian Turnip. Belle Isle woods and elsewhere. Rare.

2. ACORUS, Lin.

193. Calamus, Lin. Sweet Flag. Marshy grounds on Belle Isle. Common.

ORDER 5. XYRIDALES.

FAMILY 10. PONTEDERIACEÆ. Pickerel-weed Family.

1. PONTEDERA, Lin.

194. cordata, Lin. Pickerel-weed. Marshy grounds on Belle Isle. Common.

ORDER 6. LILIALES.

FAMILY 11. JUNCACEÆ. Rush Family.

1. JUNCUS, Lin. Rush.

195. effusus, Lin. Marshy grounds on Belle Isle. Frequent.
196. Balticus, Willd. Sandy Shores of Belle Isle. Frequent.
197. bufonius, Lin. Roadsides, etc., on Belle Isle and elsewhere. Common.
198. tenuis, Willd. With the last. Common.
199. var. secundus, (Beauv.) Engelm. Near Palmer Park. Common.
200. pelocarpus, E. Meyer. Sandy shores of Belle Isle. Common.
201. Richardsonianus, Schult. With the last. Common.
202. nodosus, Lin. Low grassy shores of Belle Isle. Frequent.
203. Torreyi, Coville. With the last but more common.
204. Canadensis, J. Gay. Near Palmer Park. Common.
205. acuminatus, Mx. Near Linden Park. Frequent.

2. JUNCOIDES, Adans.

206. campestre, (L.) O. K. Belle Isle woods and elsewhere. Common.

FAMILY 12. LILIACEÆ. Lily Family.

1. UVULARIA, Lin. Bellwort.

207. grandiflora, J. E. Smith. Linden Park. Rare.
208. sessiliflora, Lin. With the last but more frequent.

2. HEMEROCALLIS, Lin. Day Lily.

209. fulva, Lin. Vacant lots, etc., Detroit. Rare.

3. ALLIUM, Lin. Garlic

210. Canadense, Lin. Roadsides on Belle Isle. Common.

4. LILIUM, Lin. Lily.
 211. Canadense, Lin. Belle Isle woods. Common.
 212. superbum, Lin. With the last but rare.
5. TULIPA, Lin. Tulip.
 213. Gesneriana, Lin. This and the Hyacinth apparently persist without cultivation at the upper end of the Island and in other parts of Detroit, i. e., on ballast grounds and vacant lots.
6. ERYTHRONIUM, Lin. Adders Tongue.
 214. Americanum, Ker. Belle Isle woods, etc. Common.
 215. albidum, Nutt. With the last but not common.
7. HYACINTHUS, Lin. Hyacinth.
 216. orientalis, Lin.
8. ALETRIS, Lin. Star Grass.
 217. farinosa, Lin. Near Linden Park. Common.
9. ASPARAGUS, Lin.
 218. officinalis, Lin. Vacant fields in Detroit. Common.
10. VAGNERA, Adans.
 219. racemosa, (Lin) Morong. Wild Spikenard Belle Isle woods. Common.
11. UNIFOLIUM, Adans. False Lilly-of-the-valley.
 220. Canadense, (Desf.) Greene. Near Palmer Park. Common.
12. SALOMONIA, Hiest, ex. Fabri Eumeratio Ed. I, 20, 1759.
 221. biflorum, (Walt.), (*Convallaria biflora*, Walt. Fl. Car. 122. 1788.) Near Palmer Park. Common.
 222. commutatum, (R. & S.) *Convallaria commutata*, R. & S. Syst, 7, 1671, 1830.) Belle Isle woods. Common.
13. TRILLIUM, Lin. Wake-robin.
 223. grandiflorum, (Mx.) Salisb. var. obovatum, (Ph.) *T. obovatum*, Ph. Fl. Sept. Am. 1: 245 (1814). The petals are rose color or pink In the species they are white and much larger. Belle Isle woods. Common.
 224. erectum, Lin. Near Palmer Park. Rare.
 225. cernuum, Lin. Belle Isle woods. Common.
 226. undulatum, Willd. Near Linden Park. Rare.

14. SMILAX. Lin. Sarsaparilla.

- 227. herbacea, Lin. Carion-flower. Belle Isle woods. Rare.
- 228. var. humilis (Mill.) Diet. Ed. 8, No. II, 1768. *pulverulenta*, Mx. Fl. Bor. Am. 2: 238. 1803. Belle Isle woods. Rare.
- 229. var. ecirrhata, Engelm. Belle Isle woods. Common.
- 230. hispida, Muhl. Belle Isle woods. Common.

FAMILY 13. AMARYLLIDACEAE. Amaryllis Family.

1. NARCISSUS, Lin.

- 231. Poeticus, Lin.
- 232. biflorus, Curt.

These two species seem to persist along side of the avenues on Belle Isle and without cultivation in the woods at the upper end of Belle Isle.

2. HYPOXIS, Lin. Stargrass.

- 233. hirsuta, (Lin.) Coville. On sparsely wooded dry soil on Belle Isle. Rare.

FAMILY 14. DIOSCOREACEAE. Yam Family.

1. DIOSCOREA.

- 234. villosa, Lin. Wild Yam. Belle Isle woods. Common.

FAMILY 15. IRIDACEAE. Iris Family.

1. IRIS, Lin.

- 235. versicolor, Lin. Marshy grounds Belle Isle. Frequent.

2. GEMMINGIA, Fabr.

- 236. Chinensis, (Lin.) O. K. Waste grounds at Detroit. Rare

3. SISYRINCHIUM, Lin. Blue-eyed Grass.

- 237. graminoides, Bicknell. In grassy places on Belle Isle and elsewhere. Frequent.
- 238. hostile, Bicknell. Marshy grounds on Belle Isle. Rare. A new species.
- 239. albidum, Raf. Common on Belle Isle and elsewhere.
- 240. Farwellii, Bicknell. A new species from near Birmingham.

ORDER 7. ORCHIDALES.

FAMILY 16. ORCHIDACEAE. Orchid Family.

1. PERULARIA, Lindl.

- 241. flava, (Lin.) *Orchis flava*, Lin. Sp. Pl. p. 942, 1753.
Habenaria virescens, Spreng. Syst. 3.688, 1826.
At Linden Park. Rare.

2. FIMBRIELLA, Farwell.
 242. *lacera*, (Mx.) Farwell. With the last. Frequent.
 243. *leucophoea*, (Nutt.) Farwell. Grassy places on southern side of Belle Isle. Frequent.
3. GYROSTACHYS, Pers.
 244. *cernua*, (L.) Kuntze. Ladies' Tresses. At Linden Park. Frequent.
4. LEPTORCHIS, Thouars.
 245. *Loeseli*, (L.) Mac M. Moist banks at Detroit. Rare.

SUBCLASS 2. DICOTYLEDONES.

SERIES I. CHORIPETALAE.

ORDER I. SALICALES.

FAMILY I. SALICACEAE. Willow Family.

1. POPULUS, Lin. Poplar.
 246. *tremuloides*, Mx. American Aspen. Linden Park. Frequent.
 247. *deltoides*, Marsh. Cotton-wood. Frequent on Belle Isle.
2. SALIX. Willow.
 248. *amygdaloides*, Anders. Belle Isle shores. Common.
 249. *lucida*, Muhl. On Belle Isle and elsewhere. Rare.
 250. *fragilis*, Lin. North east shores of Belle Isle. Rare.
 251. *alba*, Lin. var. *vitellina*, (Lin.) Koch. On Belle Isle. Frequent.
 252. *Babylonica*, Lin. Common on Belle Isle and elsewhere.
 253. *purpurea*, Lin. South shores of Belle Isle. Rare.
 254. *fluviatilis*, Nutt. North shores of Belle Isle. Rare.
 255. *Bebbiana*, Sarg. At Linden Park. Frequent.
 256. *tristis*, Ait. At Linden Park. Frequent.
 257. *discolor*, Muhl. Shores of Belle Isle. Frequent.
 258. var. *eriocephala*, (Mx.) Anders. At Linden Park. Rare.
 259. *sericea*, Marsh. At Linden Park. Frequent.
 260. *petiolaris*, J. E. Sm. On Belle Isle. Rare.
 261. *candida*, Fluegge. At old race-course. Frequent.
 262. *cordata*, Muhl. At Linden Park. Rare.
 263. var. *angustata*, (Ph.) Anders. On Belle Isle. Frequent.

ORDER 2. JUGLANDALES.

FAMILY 2. JUGLANDACEÆ. Walnut Family.

1. HICORIA, Raf. Hickory.
 264. minima, (Marsh.) Britt. Bitter-nut.
 265. ovata, (Mill.) Britton. Shell-bark.
 266. var. borealis, (Ashe)
H. borealis. Ashe. Notes on Hickories, 1896.
 267. laciniosa, (Mx.) Sarg. Shag-bark.
 268. alba, (Lin.) Britt. Mocker-nut.
 269. glabra, (Mill.) Britt. Pig-nut.
 270. var. odorata, (Marsh.) Sarg.

All these hickories are more or less common on Belle Isle. The seeds of all except *H. minima* and of *H. glabra* are edible. The fruit of *H. borealis* has a thick husk completely separating into four valves, a thin shell, and a sweet seed; the bark is shaggy; it therefore is a variety of *H. ovata*. It differs from the species in having a smaller fruit (not over one half so large) and smaller, narrower leaflets, foliage resiniferous shining and drying black when young,

FAMILY 3. BETULACEÆ. Birch Family.

1. BETULA, Lin.
 271. papyrifera, Marsh. Canoe Birch. Near Palmer Park. Common.

ORDER 3. FAGALES.

FAMILY 4. CORYLACEÆ. Hazel-nut Family.

1. CARPINUS, Lin.
 272. Virginiana, (Marsh.) Sudw. Hornbeam, Blue or water beach. Common on Belle Isle and elsewhere.
2. OSTRYA, Scop.
 273. Virginiana, (Mill.) Koch. At places in Detroit. Rare.
3. CORYLUS, Lin.
 274. Americana, Walt. Hazel-nut. Common on Belle Isle and elsewhere.

FAMILY 5. CASTANEACEÆ. Oak Family.

1. FAGUS, Lin. Beech.
 275. Americana-latifolia, Muench. Near Palmer Park. Rare.

2. *QUERCUS*, Lin. Oak.

- 276. *rubra*, Lin. On Belle Isle and near Palmer Park. Rare.
- 277. *palustris*, DuRoi. On Belle Isle. Common.
- 278. *coccinea* x *palustris*, Hill. Near Palmer Park. Common.
- 279. *alba*, Lin. On Belle Isle. Common.
- 280. *macrocarpa*, Mx. On Belle Isle. Frequent.
- 281. *platanoides*, (Lam.) Sudw. Belle Isle, etc. Common.

ORDER 4. URTICALES.

FAMILY 6. ULMACEÆ. Elm Family.1. *ULMUS*, Lin.

- 282. *Americana*, Lin. Elm. In woods on Belle Isle. Frequent.

FAMILY 7. LUPULACEÆ. Hop Family.1. *CANNABIS*, Lin.

- 283. *sativa*, Lin. Hemp. On ballast grounds, etc., Detroit. Rare.

FAMILY 8. URTICACEÆ. Nettle Family.1. *URTICA*, Lin.

- 284. *dioica*, Lin. Stinging Nettle. North shores Belle Isle. Frequent.

2. *URTICASTRUM*, Fabr.

- 285. *divaricatum*, (Lin.) O. K. Wood Nettles. Belle Isle woods. Common.

3. *ADICEA*, Raf.

- 286. *pumila*, (Lin.) Raf. Clearweed. Belle Isle woods. Common.

ORDER 5. SANTALALES.

FAMILY 9. SANTALACEÆ. Sandalwood Family.1. *COMANDRA*, Nutt.

- 287. *umbellata*, (Lin.) Nutt. Bastard Toad Flax. At Linden Park. Frequent.

ORDER 6. ARISTOLOCHIALES.

FAMILY 10. ARISTOLOCHIACEÆ. Birthwort Family.

1. ASARUM, Lin.
 288. Canadense, Lin. Wild Ginger. Belle Isle woods. Frequent.

ORDER 7. POLYGONALES.

FAMILY 11. POLYGONACEÆ. Buckwheat Family.

1. RUMEX, Lin. Dock.
 289. Acetosella, Lin. Sour Sab, Sorrel. Roadsides on Belle Isle. Common.
 290. crispus, Lin. Yellow Dock. On Belle Isle, etc. Common.
 291. obtusifolius, Lin. Bitter Dock. With the last. Common.
2. FAGOPYRUM, Gaertn.
 292. Fagopyrum, (Lin.) Karst. Buckwheat. Belle Isle, waste places, etc. Rare.
3. POLYGONUM, Lin.
 293. amphibium, Lin. Persicaria. Belle Isle canals. Common.
 294. Hartwrightii, A. Gr. On dry grounds on Belle Isle. Common.
 295. emersum, (Mx.) Britton. With the last. Common.
 296. incarnatum, Ell. Low grounds on Belle Isle. Common.
 297. lapathifolium, Lin. Borders of canals on Belle Isle. Rare.
 298. var. incanum, (Schmidt) Koch. Near water on Belle Isle. Rare.
 299. nodosum, Pers. Waste places at Detroit. Common.
 300. Pennsylvanicum, Lin. Low grounds on Belle Isle. Common.
 301. Persicaria, Lin. Roadsides, etc., on Belle Isle. Common.
 302. hydropiperoiodes, Mx. Waterpepper. Grassy shores on Belle Isle. Rare.
 303. var. Macouni, Small. Borders of pools at Linden Park. Rare.
 304. Hydropiper, Lin. Smart-weed. Waste places Belle Isle, etc. Common.
 305. punctatum, Ell. Shores of Belle Isle. Common.
 306. orientale, Lin. Prince's Feather. Waste places at Detroit. Rare.

- 307. *Virginianum*, Lin. Knotweed. Belle Isle woods. Common.
- 308. *aviculare*, Lin. Knotweed. Roadsides on Belle Isle, etc. Common.
- 309. *littorale*, Link. With the last. Common.
- 310. *Rayi*, Babington. Roadsides on Belle Isle, etc. Rare.
- 311. *erectum*, Lin. Roadsides on Belle Isle, etc. Common.
- 312. *Convolvulus*, Lin. Bindweed. Waste places on Belle Isle, etc. Common.
- 313. *scandens*, Lin. Belle Isle and Palmer Park. Rare.
- 314. *sagittatum*, Lin. Near Palmer Park. Common.

ORDER 8. CHENOPODIALES.

FAMILY 12. CHENOPODIACEÆ. Goosefoot Family.

1. CHENOPODIUM, Lin.

- 315. *album*, Lin. Pigweed. On Belle Isle. Rare.
- 316. *viride*, Lin. On Belle Isle and elsewhere. Common. Also a low prostrate, spreading form, forming a patch often three feet in diameter. Leaves under a half inch in length, not larger than those of *Chenopodium vulvaria*; linear.
- 317. *leptophyllum*, (Moq.) Nutt. (?) A plant with the general habit and aspect of this species but the leaves are destitute of mealiness underneath. Perhaps a form of *C. viride*. Waste places at Detroit. Rare.
- 318. *glaucum*, Lin. Goosefoot. On Belle Isle, etc. Common.
- 319. *murale*, Lin. Roadsides, etc., at Detroit. Frequent.
- 320. *hybridum*, Lin. Waste places on Belle Isle, etc. Common.
- 321. *Botrys*, Lin. Jerusalem Oak. Waste grounds at Detroit. Common.
- 322. *anthelminticum*, Lin. Wormseed. Waste grounds at Detroit. Common.
- 323. *vulvaria*, Lin. Waste grounds at Detroit. Rare.

2. BETA, Lin.

- 324. *vulgaris*, Lin. Beet. Waste grounds at Detroit. Rare.

3. ATRIPLEX, Lin. Orachi.

- 325. *hortensis*, Lin. Garden Orache. With the last. Rare.
- 326. *patula*, Lin. Waste grounds at Detroit. Common.
- 327. *hastata*, Lin. With the last. Frequent.

4. SALSOLA, Lin.

- 328. *Tragus*, Lin. Russian Thistle. Waste grounds at Detroit. Rare.

FAMILY 13. AMARANTHACEÆ. Amaranth Family.

1. AMARANTHUS, Lin.

- 329. retroflexus, Lin. Pigweed. Roadsides on Belle Isle. Common.
- 330. hypochondriacus, Lin. Ballast grounds at Detroit. Frequent.
- 331. chlorostachys, Willd. On Belle Isle, etc. Frequent.
- 332. paniculatus, Lin. Sandy shores of Belle Isle. Rare.
- 333. blitoides, Wats. Waste places at Detroit. Common.
- 334. Graecizans, Lin. Roadsides, etc., on Belle Isle and elsewhere. Common.
- 335. deflexus, Lin. Ballast grounds at Detroit. Rare.

2. ACNIDA, Lin.

- 336. tamariscina, (Nutt.) Wood. var. prostata, Uline & Bray. Sandy shores of Belle Isle. Rare.

FAMILY 14. PHYTOLACCACEÆ. Pokeweed Family.

1. PHYTOLACCA, Lin.

- 337. Americana, Lin. (*P. decandra*, L.) Sandy shores of Belle Isle. Rare.

FAMILY 15. AIZOACEÆ. Carpetweed Family.

1. MOLLUGO, Lin.

- 338. verticillata, Lin. Waste grounds at Detroit. Frequent.

FAMILY 16. PORTULACACEÆ. Purslane Family.

1. CLAYTONIA, Lin.

- 339. Virginica, Lin. Spring Beauty. Belle Isle woods, etc. Common.

2. PORTULACA, Lin.

- 340. oleracea, Lin. Pussley. Roadsides on Belle Isle. Frequent.
- 341. grandiflora, Hook. Sun-plant. Waste grounds, etc., at Detroit. Rare.

FAMILY 17. CARYOPHYLLACEÆ. Pink Family.

1. AGROSTEMMA, Lin.

- 342. Githago, Lin.. Corn Cockle. Roadsides, etc., on Belle Isle. Common.

2. *SILENE*, Lin.
 343. *antirrhina*, Lin. Catchfly. Roadsides on Belle Isle. Common.
 344. *noctiflora*, Lin. With the last. Frequent.
3. *LYCHNIS*, Lin.
 345. *alba*, Mill. Campion. East shore of Belle Isle. Common.
4. *SAPONARIA*, Lin.
 346. *officinalis*, Lin. Bouncing Bet. Soapwort. Waste places at Detroit. Rare.
5. *VACCARIA*, Lin.
 347. *Vaccaria*, (Lin.) Britt. Corn-herb. On ballast grounds at Detroit. Frequent.
6. *DIANTHUS*, Lin.
 348. *barbatus*, Lin. Sweet William. Northern grassy shores of Belle Isle. Frequent.
7. *ALSINE*, Lin.
 349. *media*, Lin. Chickweed. Roadsides on Belle Isle, etc. Common.
 350. *longifolia*, (Muhl.) Britt. Stitchwort. Low grassy places, Belle Isle, etc. Frequent.
8. *CERASTRUM*, Lin.
 351. *viscosum*, Lin. Mouse-eared Chickweed. Belle Isle. Rare.
 352. *vulgatum*, Lin. With the last, but common.
 353. *oblongifolium*, Torr. Sandy shores on Belle Isle. Common.
9. *ARENARIA*, Lin.
 354. *serpyllifolium*, Lin. Sandwort. Roadsides on Belle Isle. Common.
11. *MOEHRINGIA*, Lin.
 355. *laterifolia*, (Lin.) Fenzl. Sandwort. Shores of Belle Isle. Rare.

ORDER 9. RANALES.

FAMILY 18. NYMPHÆACEÆ. Waterlily Family.

1. *NYMPHÆA*, Lin.
 356. *advena*, Ait. Yellow Pond Lilly. Common in canals on Belle Isle.

2. NELUMBO, Adans.

357. *lutea*, (Willd.) Pers. American Lotus. In River Rouge at Detroit. Rare.

FAMILY 19. RANUNCULACEÆ. Crowfoot Family.

1. HELLEBORUS, Lin.

358. *viridis*, Lin. Hellebore. Sandy shores of Belle Isle. Rare.

2. ISOPYRUM, Lin.

359. *bitermum*, (Raf.) T. & G. False Rue, Anemone. Belle Isle woods. Rare.

3. NIGELLA, Lin.

360. *Damascena*, Lin. Fennel Flower. In waste places, etc., at Detroit. Rare.

4. ACTÆA, Lin.

361. *rubra*, (Ait.) Willd. Baneberry. Belle Isle woods. Frequent.
362. *alba*, (Lin.) Mill. With the last, but rare.

5. AQUILEGIA, Lin.

363. *Canadensis*, Lin. Wild Columbine. Near Palmer Park. Common.

6. DELPHINIUM, Lin.

364. *Consolida*, Lin. Larkspur.
365. *Ajaxis*, Lin.
These two species of Larkspur have escaped from cultivation and are occasionally found on waste grounds, etc.

7. ANEMONE, Lin. Wind-flower.

366. *cylindrica*, A. Gr. Near Linden Park. Common.
367. *Virginiana*, Lin. Belle Isle woods. Frequent.
368. *Canadensis*, Lin. With the last, but more common.
369. *quinquefolia*, Lin. In open woods on Belle Isle, etc. Frequent.

8. HEPATICA, Scop.

370. *acuta*, (Ph.) Britt. Liverwort. In open woods on Belle Isle. Rare.

9. SYNDESMON, Hoffmseg.

371. *thalictroides*, (Lin.) Hoffmseg. Rue, Anemone. With the last. Rare.

10. RANUNCULUS, Lin.

372. *delphenifolius*, Torr. var. *teresstris*, (A. Gr.)
R. multifidus var. *terrestris*, A. Gr. Man. Ed. 5, p. 41 (1867).
 Marshy grounds on Belle Isle. Rare.
373. *reptans*, Lin. var. *intermedius*, (Hk.) T. & G. Spearwort.
 Grassy shores on Belle Isle. Common.
374. *abortivus*, Lin. Crowfoot. At Linden Park. Common.
375. *sceleratus*, Lin. In moist ditches on Belle Isle. Common.
376. *recurvatus*, Poir. In moist woods on Belle Isle. Frequent.
377. *acris*, Lin. Linden Park. Rare.
378. *Pennsylvanicus*, Lin. f. Shores on Belle Isle. Rare.
379. *serpentrionalis*, Poir. Belle Isle woods. Common.

11. THALICTRUM, Lin.

380. *dioicum*, Lin. Meadow-Rue. Borders of woods on Belle Isle.
 Common.
381. *purpurascens*, Lin. With the last. Common.

FAMILY 20. BERBERIDACEÆ. Barberry Family.

1. BERBERIS, Lin.

382. *vulgaris*, Lin. Barberry. Vacant lots, etc. Rare.

2. JEFFERSONIA, Bart.

383. *diphylla*, (Lin.) Pers. Twin-Leaf. Belle Isle woods. Rare.

3. PODOPHYLLUM, Lin.

384. *paltatum*, Lin. Mandrake. Belle Isle woods. Common.

FAMILY 21. MENISPERMACEÆ. Moonseed Family.

1. MENISPERMUM, Lin.

385. *Canadense*, Lin. Moonseed. Climbing over shrubbery on
 Belle Isle. Frequent.

FAMILY 22. MAGNOLIACEÆ. Magnolia Family.

1. LIRIODENDRON, Lin. Tulip Tree.

386. *Tulipifera*, Lin. Whitewood, Yellow Poplar. Palmer Park
 and Linden Park. Rare.

FAMILY 23. LAURACEÆ. Laurel Family.

1. SASSAFRAS, Ness. & Eberm.
387. Sassafras, (Lin.) Karst. At Linden Park. Frequent.
2. BENZOIN, Fabric.
388. Benzoïn, (Lin.) Coulter. Belle Isle woods. Rare.

ORDER 10. PAPERVALES.

FAMILY 24. FUMARIACEÆ. Fumitory Family.

3. CUCULLARIA, Juss. Ex. Lin. Sp. Pl. 699, 1753.
389. Cucullaria, (Lin.) (*Fumaria Cucullaria*. Lin. Sp. Pl. 699, 1753.) Dutchman's Breeches. Linnaeus, l. c., quotes "Cucullaria, Juss." as a synonym of this plant. It thus antedates *Bikukulla*, Adans by 10 years. Moist open woods on Belle Isle. Common.

FAMILY 25. CRUCIFERÆ. Mustard Family.

1. LEPIDIUM, Lin.
390. campestre, Lin. Cress. On waste places on Belle Isle, etc. Rare.
391. Virginicum, Linn. Peppergrass. Roadsides on Belle Isle, etc. Frequent.
392. apetalum, Willd. With the last, but more common.
2. COCHLEARIA, Lin.
393. Armoracia, Lin. Horseradish. Waste places at Detroit. Frequent.
3. SISYMBRIUM, Lin.
394. officinale, (Lin.) Scop. Hedge Mustard. Waste places on Belle Isle, etc. Common.
4. SINAPIS, Lin.
395. alba, Lin. White Mustard. Ballast grounds on Belle Isle and mainland. Common.

5. **BRASSICA**, Lin. Turnip, Ruterbaga, etc.
396. *nigra*, (Lin.) Koch. Black Mustard. Belle Isle. Rare.
397. *juncea*, (Lin.) Cosson. Indian Mustard. On Belle Isle. Common.
398. *arvensis*, (Lin.) B. S. P. Charlock. Belle Isle. Common.
399. *campestris*, Lin. Turnip. On ballast grounds at Detroit. Frequent.
6. **DIPILOTAXYS**, DC.
400. *muralis*, (Lin.) DC. On ballast grounds at Detroit. Common.
7. **RAPHANUS**, Lin. Radish.
401. *Raphanistrum*, Lin. White Charlock. On ballast ground at Detroit. Rare.
8. **BARBAREA**, Ait. f.
402. *stricta*, Andr. Winter Cress. Near Palmer Park. Rare.
9. **RORIPA**, Scop.
403. *sylvestris*, (Lin.) Bess. Water Cress. Ditches and roadsides at Detroit. Common.
404. *palustris*, (Lin.) Bess. Moist grounds on Belle Isle. Common.
405. *hispida*, (Desv.) Britt. With the last. Common.
10. **CARDAMINE**, Lin.
406. *hirsuta*, Lin. Bitter Cress. Moist places on Belle Isle. Rare.
407. *Pennsylvanica*, Muhl. Moist places on Belle Isle and elsewhere. Common.
408. *purpurea*, (Torr.) Britt. Moist woods on Belle Isle. Common.
409. *bulbosa*, (Screb.) B. S. P. At Linden Park. Frequent.
11. **DENTARIA**, Lin. Pepper-root.
410. *laciniata*, Muhl. Toothwort. Moist woods on Belle Isle. Common.
12. **BURSA**, Weber. Shepherd's Purse.
411. *Bursa pastoris*, (Lin.) Britt. Roadsides, etc., on Belle Isle, etc. Common.
13. **CAMELINA**, Crantz.
412. *sativa*, (Lin.) Crantz. False Flax. Waste places on Belle Isle, etc. Frequent.

14. SOPHIA, Adans.

413. pinnata, (Walt.) Britt. Tansy Mustard. Roadsides on Belle Isle. Common.

15. ARABIS, Lin.

414. Canadensis, Lin. Sickie-pod. Near Palmer Park. Frequent.
415. glabra, (Lin.) Bernh. Tower Mustard. Unimproved property at Detroit. Frequent.

16. ERYSIMUM, Lin.

416. cheiranthoides, Lin. Treacle Mustard. Roadsides on Belle Isle. Frequent.

17. KONIGA, Adans.

417. maritima, (Lin.) R. Br. Waste places at Detroit. Frequent.

18. HESPERIS, Lin.

418. matronalis, Lin. Dame's Rocket. With the last. Frequent.

FAMILY 26. CAPPARIDACEÆ. Caper Family.

1. CLEOME, Lin.

419. spinosa, Lin. Spider-flower. Waste grounds at Detroit. Rare.

2. POLANISIA, Raf.

420. graveolens, Raf. Sandy places on Belle Isle. Frequent.

FAMILY 27. RESEDACEÆ. Mignonette Family.

1. RESEDA, Lin.

421. alba, Lin. On ballast grounds at Detroit. Rare.

ORDER II. ROSALES.

FAMILY 28. CRASSULACEÆ. Orphine Family.

1. PENTHORUM, Lin.

422. sedoides, Lin. Ditch Stone-crop. Ditches, etc., Belle Isle. Common.

FAMILY 29. SAXIFRAGACEÆ. Saxifrage Family.

1. HEUCHERA, Lin.
 423. Americana, Lin. Alum-root. Dry woods on Belle Isle. Rare.
2. MITELLA, Lin. MITREWORT.
 424. diphylla, Lin. Bishop's Cap. Near Palmer Park. Frequent.
3. RIBES. Lin. Gooseberry, Currant.
 425. Cynosbati, Lin. Wild Gooseberry, Dogberry
 426. floridum, L'Her. Wild Black Currant. Both species are common in woods on Belle Isle.

FAMILY 30. HAMAMELIDACEÆ. Witch Hazel Family.

1. HAMAMELIS, Lin.
 427. Virginiana, Lin. Witch Hazel. Frequent in sparsely wooded places at Detroit.

FAMILY 31. ROSACEÆ. Rose Family.

1. SPIRÆA, Lin. Meadow Sweet.
 428. salicifolia, Lin. Quaker Lady. Moist grounds on Belle Isle.
 429. tomentosa, Lin. Hardhack. Near Linden Park. Rare.
2. RUBUS, Lin. Blackberry, Raspberry.
 430. odoratus, Lin. Near Linden Park. Rare.
 431. strigosus, Mx. Red Raspberry. Roadsides on Belle Isle. Frequent.
 432. neglectus, Peck. Dry woods on Belle Isle. Rare.
 433. occidentalis, Lin. Black Raspberry. With the last two species. Common.
 434. Americanus, (Pers.) Britt. Dwarf Raspberry. Low grounds at upper end of Belle Isle. Common.
 435. villosus, Ait. Blackberry. Dry grounds at Linden Park. Frequent.
 436. hispidus, Lin. Low grounds at Linden Park. Frequent.
 437. Baileyanus, Britt. Dry woods at upper end of Belle Isle. Common.
 438. Canadensis, Lin. Dewberry. At Linden Park. Frequent.
3. FRAGARIA, Lin. Strawberry.
 439. Virginiana, Duchesne. In dry grounds on Belle Isle. Common.

4. *POTENTILLA*, Lin.

440. *argentea*, Lin. Hoary Cinquefoil. Dry grounds at Linden Park. Rare.
441. *Monspeliensis*, Lin. Dry soils and waste places at Linden Park. Common.
442. var. *Norvegica*, (Lin.) O. A. F. Moist places on Belle Isle. Common. The type is the low, simple form of wet, grassy meadows; the lower leaflets being broadly ovate or nearly round. The var. is the larger, coarser branched plant of drier situations; the leaflets are oblong-obovate or oblong-lanceolate.
443. *Anserina*, Lin. Silver-weed. Low moist shores of Belle Isle. Common.
444. *Canadensis*, Lin. Five-finger. Dry soils on Belle Isle. Frequent.
445. var. *pumila*, (Poir.) Lehm. Sunburnt fields at Linden Park. Frequent.
446. var. *simplex*. (Mx.) T. & G. Moist grounds on Belle Isle. Frequent.

5. *GEUM*, Lin.

447. *vernum*, (Raf.) T. & G. Spring Avens. Belle Isle woods. Common.
448. *Canadense*, Jacq. White Avens. Belle Isle woods. Common.
449. *Virginianum*, Lin. Rough Avens. Frequent on upper end of Belle Isle.
450. *strictum*, Ait. Yellow Avens. Moist grounds at Linden Park. Frequent.

6. *AGRIMONIA*, Lin. Agrimony.

451. *hirsuta*, (Muhl.) Bicknell.
452. *mollis*, (T. & G.) Britton.
453. *parviflora*, Ait. All common in moist or dry woods on Belle Isle.

7. *ROSA*, Lin.

454. *setigera*, Mx. Prairie Rose.
455. *blanda*, Ait. Meadow Rose.
456. *Carolina*, Lin. Swamp Rose.
457. *humilis*, Marsh. Pasture Rose. All more or less frequent on banks, etc., on Belle Isle; the prairie rose is very common in moist woods.

8. *MALUS*, Mill. Apple.
 458. *coronaria*, (Lin.) Mill. Crab Apple. Belle Isle woods, etc. Common.
9. *ARONIA*, Medic. Choke Cherry.
 459. *arbutifolia*, (Lin.) Medic. Belle Isle thickets. Rare.
 460. *nigra*, (Willd.) Britton. At Linden Park. Rare.
10. *AMELANCHIER*. Medic.
 461. *Canadensis*, (Lin.) Medic.
 462. *Botryapium*, (Lin.) DC. Known as Shad-bush, sugar-plum, sugar-pear, May cherry, June-berry, Service-berry. Both species are found on Belle Isle and elsewhere.
11. *CRATAEGUS*, Lin. Haw ; Thorn Apple.
 463. *Crus-Galli*, Lin. Belle Isle thickets, etc. Common.
 464. *punctata*, Jacq. With the preceeding. Frequent.
 465. *coccinea*, Lin. Thickets on Belle Isle. Frequent.
 466. *macracantha*, Lodd. With the last. Rare.
 467. *mollis*, (T. & G.) Scheele. Thickets on Belle Isle, etc. Common.
 468. *tomentosa*, Lin. With the last. common.
12. *PRUNUS*, Lin. Plums and Cherries.
 469. *Americana*, Marsh. Plum. Belle Isle woods. Frequent.
 470. *Pennsylvanica*, Lin. f. Cherry. Near Palmer Park. Frequent.
 471. *Virginiana*, Lin. Choke Cherry. Belle Isle thickets. Rare.
 472. *serotina*, Ehrh. Black Cherry. Near Linden Park. Rare.

FAMILY 32. LEGUMINOSÆ. Pea Family.

1. *BAPTISIA*, Vent.
 473. *tinctoria*, (Lin.) R. Br. Wild Indigo.
 474. *leucantha*, T. & G. These species of Wild Indigo are found near Linden Park ; the first is rather common ; the latter rare.
2. *CROTALARIA*, Lin.
 475. *sagittalis*, Lin. Rattle-box. Near Linden Park. Rare.
3. *LUPINUS*, Lin.
 476. *perennis*, Lin. Wild Lupine. Frequent near Palmer Park.
 477. *polycarpus*, Greene. A Pacific Coast species. A waif of bal-last grounds at Detroit.

4. *MEDICAGO*, Lin.

- 478. *sativa*, Lin. Alfalfa, Lucerne. Ballast grounds. Rare.
- 479. *lupulina*, Lin. Black Medic. Nonesuch. Waste places on Belle Isle, etc. Common.
- 480. *denticulata*, Willd. Ballast grounds. Rare.

5. *MELILOTUS*, Lam. Sweet Clover.

- 481. *alba*, Desv. White Melilot, Waste grounds. Common.
- 482. *Melilotus-officinalis*, (Lin.) Yellow Melilot. *Trifolium Melilotus-officinalis*, Lin. Sp. Pl. 765, 1753. With the last ; also on Belle Isle. Common.

6. *TRIFOLIUM*, Lin. Clover.

- 483. *agrarium*, Lin. Hop Clover. Near Linden Park. Rare.
- 484. *pratense*, Lin. Red Clover. Grassy places on Belle Isls, etc Common.
- 485. *hybridum*, Lin. Alsike Clover. Roadsides on Belle Isle. Common.
- 486. *repens*, Lin. White Clover. Grassy places on Belle Isle, etc. Common.
- 487. *furcatum*, Lindl.
- 488. *depauperatum*, Desv. The last two species are waifs from the Pacific Coast.

7. *AMORPHA*, Lin.

- 489. *canescens*, Pursh. Shoe Strings, Lead Plant. Near old race-course. Rare.

8. *ROBINIA*, Lin.

- 490. *viscosa*, Vent. Locust. Detroit. Rare.

9. *ASTRAGALUS*, Lin.

- 491. *Caroliniensis*, Lin. Milk Vetch. Shores of Belle Isle. Rare.

10. *MEIBOMIA*, Fabric. Tick-trefoil.

- 492. *grandiflora*, (Walt.) O. K.
- 493. *paniculata*, (Lin.) O. K.
- 494. *Dillenii*, (Darl.) O. K.
- 495. *Canadense*, (Lin.) O. K. All these species of Tick-trefoil, except the last, which is scarce, are common in the woods on Belle Isle.

11. *LESPEDeza*, Mx. Bush-Clover.
 496. *frutescens*, (Lin.) Britton.
 497. *hirta*, (Lin.) Ell.
 498. *capitata*, Mx. Near Linden Park the Bush Clovers are common, except the first, which is scarce.
12. *VICIA*, Lin. Vetch or Tare.
 499. *Cracca*, Lin. Linden Park. Rare.
 500. *sativa*, Lin. Roadsides on Belle Isle. Rare.
13. *LATHYRUS*, Lin. Pea.
 501. *palustris*, Lin. Dry woods on Belle Isle. Common.
 502. *myrtifolius*, Muhl. With the preceeding, but scarce.
14. *FALCATA*. Gmel.
 503. *comosa*, (Lin.) O. K. Moist thickets on Belle Isle. Common.
15. *PHASEOLUS*, Lin. Bean.
 504. *polystachyus*, (Lin.) B. S. P. Thickets on Belle Isle. Rare.
 505. *vulgaris*, Lin. var. *nana*, (Lin.) Steud. On ballast grounds and waste places. Rare.
16. *STROPHOSTYLES*, Ell.
 506. *helvola*, (Lin.) Britt. In sandy places on Belle Isle and elsewhere. Frequent.
17. *GYMNOCLADUS*, Lam. Kentucky Coffee-tree.
 507. *dioica*, (Lin.) Koch. Belle Isle thickets. Rare.
18. *GLEDITSIA*, Lin.
 508. *triacanthos*, Lin. Honey Locust. Belle Isle woods. Frequent.

ORDER 12. GERANIALES.

FAMILY 33. GERANIACEÆ.

- I. *GERANIUM*, Lin.
 509. *maculatum*, Lin. Common in moist woods on Belle Isle.
 510. *Carolinianum*, Lin. Frequent in shady places on Belle Isle, etc.
 511. *Bicknellii*, Britton. With the preceeding, but more common.

FAMILY 34. OXALIDACEÆ. Wood Sorrel Family.

1. OXALIS, Lin.

512. *cymosa*, Small. Wood-sorrel. Borders of woods on Belle Isle. Common.

FAMILY 35. LINACEÆ. Flax Family.

1. LINUM, Lin.

513. *usitatissimum*, Lin. Flax. Sandy places on Belle Isle and elsewhere. Frequent.
514. *humile*, Mill. Roadsides on Belle Isle. Rare.

FAMILY 36. RUTACEÆ. Rue Family.

1. ZANTHOXYLUM, Lin.

515. *Americanum*, Mill. Prickly Ash. Thickets on Belle Isle. Common.

FAMILY 37. SIMARUBACEÆ. Athlantis Family.

1. AILANTHUS, Desf.

516. *glandulosa*, Desf. Tree-of-Heaven. Detroit. Frequent.

FAMILY 38. POLYGALACEÆ. Milkwort Family.

1. POLYGALA, Lin. Milkwort.

517. *verticillata*, Lin. Grassy fields. Frequent.
518. *viridescens*, Lin. Near Linden Park. Scarce.
519. var. *sanguinea*, (Lin.) *P. sanguinea*, Lin. Sp. Pl. 705, 1753. The type has the flowers greenish or white; the variety has the flowers rose-purple and is the common form.

FAMILY 39. EUPHORBIACEÆ. Spurge Family.

1. ACALYPHA, Lin.

520. *Virginica*, Lin. In thickets on Belle Isle. Common.

2. RICINUS, Lin.

521. *communis*, Lin. Castor-plant. In waste places. Rare.

3. EUPHORBIA, Lin.

522. *maculata*, Lin. Sandy places. Common on Belle Isle and elsewhere.

- 523. *hirsuta*, (Torry) Wiegand. Sandy or grassy places near Palmer Park, Belle Isle, etc. Rare.
- 524. *Nutans*, Lag. Waste places. Frequent.
- 525. *corollata*, Lin. Flowering Spurge. Linden Park. Common.
- 526. *marginata*, Ph. Snow-on-the-Mountain. Waste places. Frequent.
- 527. *obtusata*, Ph. Borders of woods on Belle Isle. Rare.
- 528. *platyphylla*, Lin. Shores of Belle Isle. Rare.
- 529. *helioscopia*, Lin. Roadsides on Belle Isle. Frequent.

ORDER 13. SAPINDALES.

FAMILY 40. ANACARDIACEÆ. Sumach Family.

I. RHUS, Lin. Sumach.

- 530. *copallina*, Lin. Dwarf or Mountain Sumach. Near Linden Park. Common.
- 531. *hirta*, (Lin.) Sudw. Belle Isle. Frequent in thickets.
- 532. *glabra*, Lin. Scarlet Sumach. In dry woods on Belle Isle. Common.
- 533. *radicans*, Lin. Poison Oak. Climbing trees by radicles. Belle Isle. Common.
- 534. *pubescens*, (Mill.)
Toxicodendron pubescens, Mill. Dict. No. 2; 1868. *Rhus Toxicodendron* var. *quercifolium*, Mx. Fl. Bor. Am. I., 183, 1803. This is a low shrub with extensively creeping underground stems which send up branches rarely over a foot in height; never climbing; leaflets oval, acute or acuminate and with a broadly or narrowly cuneate base; deeply 3 to 5 (generally 3) incisely-lobed, oftentimes with one margin entire; lobes ovate, acute or acuminate, margins entire.

FAMILY 41. AQUIFOLIACEÆ. Holly Family.

I. ILEX. Lin.

- 535. *verticillata*, (Lin.) A. Gr. Black Alder. Moist woods on Belle Isle. Common.

FAMILY 42. CELASTRACEÆ. Staff-tree Family.

I. EUONYMUS, Lin.

- 536. *obovatus*, Nutt. Strawberry bush. Moist thickets on Belle Isle. Rare,
- 537. *atropurpureus*, Jacq. Wahoo. Belle Isle woods. Common.

2. CELASTRUS, Lin.

538. bullatus, Lin. (*C. Scandens*, L.) Climbing over shrubs on Belle Isle. Common

FAMILY 43. ACERACEÆ. Maple Family.

1. ACER, Lin.

539. saccharium, Lin. Silver Maple. Low grounds. Rare.
540. rubrum, Lin. Red Maple. Moist woods on Belle Isle. Frequent.

FAMILY 44. BALSAMINACEÆ. Jewel-weed Family.

1. IMPATIENS, Lin.

541. biflora, Walt. Touch-me-not. Moist grounds on Belle Isle. Common.

ORDER 14. RHAMNALES.

FAMILY 45. RHAMNACEÆ. Buckthorn Family.

1. CEANOTHUS, Lin.

542. Americanus, Lin. New Jersey Tea. Linden Park. Common.

FAMILY 46. VITACEÆ. Grape Family.

1. VITIS, Lin.

543. vulpina, Riverside Grape. Common on Belle Isle.

2. PARTHENOCISSUS, Planch.

544. quinquefolia, (Lin.) Planch. var. lacinata, Planch. *P. vitacea*, (Knerr.) A. S. Hitchcock. Internodes of the stem and branches 2'-4' long, leaves glabrous, or sparsely short-pubescent; tendrils mostly without terminal adhering disks. Moist grounds on Belle Isle. Frequent.
545. var. hirsuta, (Donn.) T. & G. Ex. Planch. Aerial roots numerous; high-climbing; internodes of the stem and branches $\frac{1}{4}$ to $\frac{3}{4}$ inch long; leaves pubescent on both sides, and pilose on the mid-vein underneath; tendrils none. Moist woods on Belle Isle. Frequent.

ORDER 15. MALVALES.

FAMILY 47. TILIACEÆ. Linden Family.1. *TILIA*, Lin.

546. *Americana*, Lin. Basswood. Moist woods Belle Isle. Frequent.

FAMILY 48. MALVACEÆ. Mallow Family.1. *ALTHÆA*, Lin.

547. *officinalis*, Lin. Marshmallow. In waste places, etc. Frequent.

2. *MALVA*, Lin.

548. *rotundifolia*, Lin. Mallow. Roadsides, etc., on Belle Isle and elsewhere. Common.
549. *crispa*, Lin. Waste places, etc. Common.

3. *ABUTILON*. Gaertn.

550. *Abutilon*, (Lin.) Rusby. Indian Mallow. Waste places, etc. Common.

4. *HIBISCUS*, Lin.

551. *Trionum*, Lin. Venice Mallow. With the last. Frequent.

ORDER 16. PARIETALES.

FAMILY 49. HYPERICACEÆ. St. Johns-Wort Family.1. *HYPERICUM*, Lin. St. Johns-Wort.

552. *prolificum*, Lin. Sandy borders of woods on Belle Isle and elsewhere. Frequent.
553. *perforatum*, Lin. Waste places, Belle Isle, etc. Common.
554. *maculatum*, Walt., var. *corymbosum*, (Muhl.)
H. corymbosum, Muhl. Ex. Willd. Sp. Pl. 3. 1457, 1803.
 Differing from the type in having less clasping leaves and styles only one-half as long (about equalling the length of the pod.) Woods on Belle Isle. Common.
555. *mutilum*, Lin. Linden Park. Common.
556. *majus*, (A. Gr.) Britt. Near Palmer Park. Rare.
557. *Canadense*, Lin. Low grassy places. Frequent.

FAMILY 50. CISTACEÆ. Rock Rose Family.**1. HELIANTHEMUM, Mx.**

558. *majus*, (Lin.) P. S. P. Frostweed. Near Palmer Park, etc. Common.
 559. *Canadense*, (Lin.) Mx. Linden Park. Rare.

2. IECHEA, Lin.

560. *villosa*, Ell. Pinweed. Linden Park. Common.

FAMILY 51. VIOLACEÆ. Violet Family.**1. VIOLA, Lin. Violet Pansy.**

561. *obliqua*, Hill. Low grounds on Belle Isle, etc. Common.
 562. *sororia*, Willd. Rich woods on Belle Isle. Rare.
 563. *ovata*, Nutt. Belle Isle and near Palmer Park. Frequent.
 564. *emarginata*, (Nutt.) Le Conte. Near Palmer Park and Linden Park. Rare.
 565. *blanda*, Willd. Shores of Belle Isle. Frequent.
 566. *var. amoena*, (Le C.) B. S. P. Near Palmer Park. Frequent.
 567. *lanceolata*, Lin. Woods on Belle Isle. Rare.
 568. *pubescens*, Ait. Dry woods on Belle Isle, etc. Common.
 569. *var. eriocarpa*, (Schw.) Nutt. With the species. Common.
 570. *Canadensis*, Lin. Woods on Belle Isle. Rare.
 571. *Labrodarica*, Schaank. Common in moist grounds on Belle Isle, etc.
 572. *rostrata*, Ph. Rich woods near Palmer Park. Rare.
 573. *tricolor*, Lin. Pausy. Waste Places. Frequent.
 574. *tenella*, Muhl. With *V. tricolor*, but rare.

ORDER 17. MYTRALES.**FAMILY 52. LYTHRACEÆ. Loosestrife Family.****1. LYTHRUM, Lin.**

575. *alatum*, Lin. Low grounds, Belle Isle and elsewhere. Common.

FAMILY 53. ONAGRACEÆ. Evening Primrose Family.**1. ISNARDIA, Lin.**

576. *palustris*, Lin. Marsh Purslane. Common near Palmer Park.

2. LUDWIGIA, Lin.

577. polycarpa, Short and Peter. Frequent at Linden Park.

3. EPILOBIUM, Lin.

578. spicatum, Lam. Fireweed. Dry grounds on Belle Isle. Frequent.

579. coloratum, Muhl. Willow Herb. Low grounds on Belle Isle. Common.

580. adenocaulon, Haussk. With the preceding. Common.

4. OENOTHERA, Lin.

581. biennis, Lin. Evening Primrose. Shores of Belle Isle. Common.

582. laciniata, Hill. Waste places. Rare.

5. GAURA, Lin.

583. biennis, Lin. Near Linden Park. Common.

6. CIRCÆA, Lin.

584. Lutetiana, Lin. Enchanter's Nightshade. Belle Isle woods. Common.

FAMILY 54. HALORAGIDACEÆ. Water Milfoil Family

1. MYRIOPHYLLUM, Lin.

585. verticillatum, Lin. Belle Isle canals. Frequent.

ORDER 18. UMBELLALES.

FAMILY 55. ARALIACEÆ. Ginseng Family.

1. ARALIA, Lin.

586. spinosa, Lin. Hercules Club. Rare.

587. racemosa, Lin. Spikenard. Belle Isle woods. Rare.

2. PANAX, Lin.

588. trifolium, Lin. Ginseng, Ground Nut. Near Palmer Park. Frequent.

FAMILY 56. UMBELLIFERÆ. Carrot Family.

1. CORIANDRUM, Lin.

589. sativum, Lin. Coriander. Waste places. Rare.

2. PASTINACA, Lin.
590. *sativa*, Lin. Parsnip. On Belle Isle. Common.
3. THASPIUM, Nutt.
591. *trifoliatum*, (L.) Britt. var. *aureum* (Nutt.) Britt. Golden Alexander. Belle Isle woods. Common.
4. SANICULA, Lin.
592. *Marylandica*, Lin. Black Snakeroot. At Linden Park. Rare.
593. *gregaria*, Bicknell. Belle Isle woods. Common.
5. FOENICULUM, Adans.
594. *Foeniculum*, (L.) Karst. Fennel. Waste places on Belle Isle. Frequent.
6. PIMPINELLA, Lin.
595. *Anisum*, Lin. Anise. On ballast grounds, etc. Rare.
596. *integerrima*, (L.) A. Gr. Belle Isle woods. Common.
7. WASHINGTONIA, Raf.
597. *Claytonia*, (Mx.) Britt. Sweet Cicely.
598. *longystilis*, (Torr.) Britt.
Both are common in woods on Belle Isle.
8. CONIUM, Lin.
599. *maculatum*, Lin. Poison Hemlock. Waste places. Frequent.
9. SIUM, Lin.
600. *cicutae-folium*, Gmel. Water Parsnip. Low shores on Belle Isle. Frequent.
10. ZIZIA, Koch.
601. *aurea*, (Lin.) Koch. Golden Meadow Parsnip. Belle Isle woods. Common.
11. CARUM, Lin.
602. *Copticum*, (L. B.) & Hk. f. Ajowan. Ballast grounds, etc. Rare.
603. *Carui*, Lin. Caraway. Near Linden Park. Rare.
12. CICUTA, Lin.
604. *maculata*, Lin. Water Hemlock. Low grounds on Belle Isle. Rare.
605. *bulbifera*, Lin. Shores of Belle Isle. Rare.
Both species of Water Hemlock are poisonous and produce death when eaten.
13. DERINGA, Adans.
606. *Canadensis*, (L.) O. K. Honewort. Belle Isle woods. Common.

FAMILY 55. CORNACEÆ. Dogwood Family.

1. CORNUS, Lin.

- 607. florida, Lin. Flowering Dogwood. Palmer Park. Common.
- 608. asperifolia, Mx. Common on Belle Isle.
- 609. candidissima, Mill. Common on Belle Isle.

SERIES 2. GAMOPETALÆ.

ORDER 1. ERICALES.

FAMILY 1. PYROLACEÆ. Wintergreen Family.

1. PYROLA, Lin.

- 610. elliptica, Nutt.
- 611. rotundifolia, Lin. Both species near Linden Park. Rare.

FAMILY 2. ERICACEÆ. Huckleberry Family.

1. GALUSSACIA? H. B. K.

- 612. resinosa, (Ait.) T. & G. Huckleberry. Near Linden Park. Rare.

2. VACCINIUM, Lin.

- 613. corymbosum, L. var. amoenum, (Ait.) A. Gr. Blueberry. With the preceding. Rare.
- 614. Pennsylvanicum, Lin. Near Palmer Park. Common.
- 615. vacillans, Kalm. Near Linden Park. Common.

ORDER 2. PRIMULALES.

FAMILY 3. PRIMULACEÆ. Primrose Family.

1. LYSIMACHIA, Lin.

- 616. quadrifolia, Lin. Loosestrife. Belle Isle thickets. Rare.

2. STEIRONEMA, Raf.

- 617. ciliatum, (Lin.) Raf. Loosestrife. Belle Isle woods. Common.
- 618. lanceolatum, (Walt.) A. Gr. Near Linden Park. Frequent.
- 619. quadriflorum, (Sims.) Hitchc. With the last. Common.

3. NAUMBURGIA, Moench. Loosestrife,
620. *thyrsifolia*, (L.) Duby. Swampy shores of Belle Isle. Rare.
4. DODECATHEON, Lin.
621. *Meadia*, Lin. American Cowslip. Moist woods on Belle Isle. Rare.

ORDER 3. GENTIANALES.

FAMILY 4. OLEACEÆ. Olive Family.

1. FRAXINUS, Lin.
622. *Pennsylvanica*, Marsh. Red Ash.
623. *nigra*, Marsh. Black Ash.
More or less common on Belle Isle.

FAMILY 5. GENTIANACEÆ. Gentian Family.

1. GENTIANA, Lin.
624. *crinita*, Froel. Gentian. Near Linden Park. Rare.
625. *alba*, Muhl. *G. Andrewsii* f. *albiflora*, Britt. In moist places and borders of woods on Belle Isle. Frequent.
626. *Andrewsii*, Griseb. With the preceding, but more common.

FAMILY 6. APOCYNACEÆ. Dogbane Family.

1. APOCYNUM, Lin. Dogbane.
627. *androsaemifolium*, Lin. Bitter-root.
628. var. *incanum*, A. DC.
629. *cannabinum*, Lin. Canadian Hemp.
630. var. *glaberrimum*, A. DC.
631. var. *hypericifolia*, (Ait.) A. Gr.
632. var. *pubescens*, (R. Br.) A. DC. All the various forms of *Apocynum* occur in moist or dry places, in thickets, on banks of streams, in sand or in hard dry clay. The bitter-root and its variety occur near Palmer Park; the type has the leaves smooth or nearly so underneath, but in the variety they are canescent. The Canadian Hemp and its first named variety are frequent on Belle Isle, and the other varieties near Linden Park.

FAMILY 7. ASCLEPIADACEÆ. Milkweed Family.

- I. ASCLEPIAS, Lin. Milkweeds.
 633. purpurascens, Lin. Near Linden Park. Frequent.
 634. incarnata, Lin. Low grounds on Belle Isle and elsewhere. Common.
 635. exaltata, Lin. (*A. phytalaccoides*, Ph.) Roadsides on Belle Isle. Rare.
 636. Syriaca, Lin. Fields on Belle Isle. Common.

ORDER 4. POLEMONIALES

FAMILY 8. CONVULVACEÆ. Morning Glory.

- I. IPOMŒA, Lin.
 637. purpurea, (Lin.) Roth. Morning Glory. Waste places. Frequent.
2. CONVULVULUS, Lin.
 638. arvensis, Lin. Small Bindweed. Waste places. Frequent.
3. VOLVULUS, Medic.
 639. sepium, (L.) Medic. Near Palmer Park. Rare.
 640. var. Americanus, (Sims.) *Convolvulus sepium*, Lin. var. *Americanus*, Sims, Bot. Mag. T. 732. 1804. On Belle Isle. Common.
 641. hederaceus, (Wall.) O. K. var. pubescens, (Lindl.) *Calystegia pubescens*, Lindl. Journ. Hort. Soc. 1, p 70. 1846. A double-flowered variety of the East Indian *V. hederaceus* that has escaped from cultivation to waste places. The flower is composed of innumerable separate petals instead of a series of gamopetalous corollas. At a distance looks very much like a carnation.
4. CUSCUTA, Lin. Dodder.
 642. Americana, Lin. *C. Gronovii*, Wi ld. On Epilobii, Polygonii, etc., on Belle Isle. Common. The Linnean *C. Americana* was primarily founded upon the Gronovian plant and its habitat given as Virginia. The West Indian and South American plant was eliminated in 1818 by H. B. K. in Nova Genera. et. Species, etc., Vol. 3, p. 122, and described under the name of *C. graveolens*, under which name it should be known, allowing *C. Americana* to stand for the plant to which Linneaus intended it to apply.

FAMILY 9. POLEMONIACEÆ. Phlox Family.

1. PHLOX, Lin.
 643. *divaricata*, Lin. Near Palmer Park. Common.
 644. *subulata*, Lin. Sandy shores of Belle Isle. Rare.

FAMILY 10. HYDROPHYLLACEÆ. Water-leaf Family.

1. HYDROPHYLLUM, Lin.
 645. *Canadense*, Lin. Near Linden Park. Frequent.

FAMILY 11. BORRAGINACEÆ. Borage Family.

1. CYNOGLOSSUM, Lin.
 646. *officinalis*, Lin. Hounds-tongue. Vicinity of Linden Park. Rare.
2. LAPPULA, Moench. Burseed.
 647. *Lappula*, (Lin.) Karst. Waste places. Common.
 648. *Virginiana*, (Lin.) Greene. Belle Isle thickets. Common.
3. MARTENSIA, Roth. Lungwort.
 649. *Virginica*, (Lin.) DC. Bluebells. Low grounds on Belle Isle. Rare.
4. LITHOSPERMUM, Lin.
 650. *arvense*, Lin. Corn Gromwell. Roadsides on Belle Isle. Frequent.

FAMILY 12. VERBENACEÆ. Vervain Family.

1. VERBENA, Lin.
 651. *officinalis*, Lin. Vervain. Waste grounds. Rare.
 652. *urticifolia*, Lin. Roadsides near woods on Belle Isle and other places. Common.
 653. *hastata*, Lin. The type of this species, the common blue vervain or wild hyssop, has the leaves 3-cleft at the base and is common in fields and waste places on Belle Isle and other places.
 654. *var. paniculata*, (Lam.) *V. paniculata*, Lam. Ency. 8, 548, 1808. A form having none of the leaves 3-cleft. Equally common in fields and waste places.
 655. *var. oblongifolia*, Nutt. *V. urticifolia riparia*, (Raf.) Britt. In waste places and quite frequent. A form with small flowers and filiform panicles, but the bluish corollas with purplish tubes and occasionally 3-cleft leaves proves it to be a form of *V. hastata* rather than of *V. urticifolia*.

FAMILY 13. LABIATÆ. Mint Family.

1. TEUCRIUM, Lin.
656. Canadense, Lin. Wood Sage. Marshy grounds on Belle Isle. Common.
2. SCUTELLARIA, Lin. Skullcap.
657. lateriflora, Lin.
658. galericulata, Lin. Frequent in low moist or wet grounds on Belle Isle and elsewhere.
3. MARRUBIUM, Lin.
659. vulgare, Lin. Hoarhound. Waste grounds. Rare.
4. AGASTACHE, Clayton.
660. nepetoides, (Lin.) O. K. Giant Hyssop. Belle Isle woods. Common.
5. NEPETA, Lin.
661. Cataria, Lin. Catnep. In waste places. Frequent.
6. PRUNELLA, Lin.
662. vulgaris, Lin. Heal-all. Belle Isle woods, etc. Common.
7. LEONURUS, Lin.
663. Cardiaca, Lin. Motherwort. In waste places. Frequent.
8. LAMIUM, Lin.
664. amplexicaule, Lin. var. clandestina, Reichenb. Henbit
Dead Nettle. Waste places. Rare.
9. STACHYS, Lin.
665. asper, Mx. Hedge Nettle. Belle Isle woods. Common
10. MONARDA, Lin.
666. fistulosa, Lin. Wild Bergamot. Near Linden Park. Rare.
667. mollis, Lin. (M. scabra, Beck.) Borders of woods, etc.,
on Belle Isle. Common.
11. BLEPHILA, Raf.
668. hirsuta, (Ph.) Torr. Belle Isle thickets. Common.
12. HEDEOMA, Pers. Pennyroyal.
669. pulegioides, (Lin.) Pers. Fields, roadsides, etc., on Belle
Isle. Common.
13. CLINOPODIUM, Lin.
670. vulgare, Lin. Wild Basil. Belle Isle thickets. Common.

14. KOELLIA, Moench. Mountain Mint.
 671. Virginiana, (Lin.) MacM. Fields on Belle Isle. Common.
15. LYCOPUS, Lin.
 672. Virginicus, Lin. Bugleweed. Common in wet soils on Belle Isle.
 673. rubellus, Moench. Water Horehound. Frequent on Belle Isle and at Linden Park.
 674. Americanus, Muhl. Belle Isle in low moist grounds. Common.
16. MENTHA, Lin.
 675. Canadensis, Lin. Wild Mint. Common on Belle Isle in moist soils.
17. COLLINSONIA, Lin.
 676. Canadensis, Lin. Stone-root. Linden Park woods.

FAMILY 14. SOLANACEÆ. Potato Family.

1. PHYSALODES, Boehm.
 677. Physalodes, (Lin.) Britt. Apple-of-Peru. At Linden Park. Rare.
2. PHYSALIS. Ground Cherry.
 678. Philadelphica, Lam. Frequent on Belle Isle.
 679. heterophylla, Nees. Common at Linden Park.
 680. var. ambigua, (A. Gr.) Rydb. Belle Isle. Rare.
3. SOLANUM, Lin.
 681. nigrum, Lin. Garden Nightshade. Common on Belle Isle, etc., in waste places.
 682. Carolinense, Lin. Horsenettle. Waste grounds, etc. Frequent.
 683. rostratum, Dunal. Bullnettle. With the preceding. Frequent.
 684. Dulcamara, Lin. Bitter Sweet. Low grounds on Belle Isle. Rare.
 685. tuberosum, Lin. Potato. Waste grounds. Frequent.
4. ATROPA, Lin.
 686. Belladonna, Lin. Belladonna. Ballast and waste grounds. Frequent.
5. LYCOPERSICON, Mill. Tomato.
 687. Lycopersicum, (Lin.) Karst. Belle Isle and other places. Common in waste places.

6. LYCIUM, Lin.
688. *vulgare*, (Ait. f.) Dun. Matrimony Vine. Waste places and fields. Rare.
7. HYOSCYAMUS, Lin.
689. *niger*, Lin. Henbane. Waste places. Frequent.
8. DATURA, Lin.
690. *Stramonium*, Lin. Jimsonweed.
691. *Tatula*, Lin. Thornapple. Both are common in waste places.
9. PETUNIA, Juss. Petunia.
691. *axillaris*, (Lam.) B. S. P. In waste places. Frequent.

FAMILY 15. SCROPHULARIACEÆ. Figwort Family.

693. *Thapsus*, Lin. Mullein.
694. *Blattaria*, Lin. Moth Mullein. Both species are common in fields and waste places on Belle Isle and other places.
1. VERBOSUM, Lin.
2. LINARIA, Mill.
695. *Linaria*, (L.) Karst. Toad Flax. Common in fields and waste places.
3. CHÆNORRHINUM, Lange.
696. *minus*, (L.) Lange. Waste places. Rare.
4. ANTIRRHINUM, Lin.
697. *majus*, Lin. Snapdragon. Ballast grounds. Rare.
5. CHELONE, Lin.
698. *glabra*, Lin. Snakehead. In moist woods on Belle Isle. Common.
6. PENSTEMON, Ait.
699. *hirsutus*, (Lin.) Willd. Belle Isle thickets. Rare.
7. MIMULUS, Lin.
700. *ringens*, Lin. Monkey Flower. Marsh grounds on Belle Isle. Frequent.
8. ISLYANTHES, Raf.
701. *gratioloides*, (Lin.) Bth. False Pimpernell. In moist places on Belle Isle. Frequent.
702. *attenuata*, (Muhl.) Small. Near Linden Park. Rare.

9. VERONICA, Lin.

- 703. scutellata, Lin. Speedwell. Belle Isle, etc., wet grounds. Common.
- 704. serpyllifolia, Lin. Roadsides on Belle Isle. Common.
- 705. peregrina, Lin. Shores of Belle Isle, etc. Frequent.
- 706. Virginica, Lin. Culver's-root. Woods on Belle Isle, etc. Common.

10. GERARDIA, Lin.

- 707. tenuifolia, Vahl. Fields on Belle Isle, etc. Common.
- 708. forma albiflora, Britt. At Linden Park. Frequent.

11. CASTILLEJA, Mutis.

- 709. coccinea, (Lin.) Spreng. Indian Paint-brush. Frequent near Palmer Park.

12. PEDICULARIS, Lin.

- 710. Canadensis, Lin. Wood Betony. Louse Wort. Frequent near Linden Park.

13. MELAMPYRUM, Lin.

- 711. lineare, Lam. Near Linden Park. Frequent.

FAMILY 16. MARTYNIACEÆ. Unicorn-plant Family..

I. MARTYNIA, Lin.

- 712. Louisiana, Mill. Unicorn-plant. Waste places. Rare.

FAMILY 17. LENTIBULARIACEÆ. Bladderwort Family.

I. URTICULARIA, Lin.

- 713. vulgaris, Lin. In sands on Belle Isle. Rare.

FAMILY 18. MARTYNIACEÆ. Lopseed Family.

I. PHRYMA, Lin.

- 714. Leptostachya, Lin. Lopseed. Common in woods on Belle Isle.

ORDER 5. PLANTAGINALES.

FAMILY 19. PLANTAGINACEÆ. Plantain Family.

I. PLANTAGO, Lin. Common Plantain.

- 715. major, Lin. Common Plantain. Roadsides and fields on Belle Isle, etc. Common.
- 716. Rugellii, Dec. Shores of Belle Isle, etc. Common.
- 717. lanceolata, Lin. Waste places, Belle Isle, etc. Common.

ORDER 6. RUBIALES.

FAMILY 20. RUBIACEÆ. Madder Family.

1. **CEPHALANTHUS**, Lin.
 718. *occidentalis*, Lin. Button-bush. Common in swampy places on Belle Isle, etc.
2. **MITCHELLA**, Lin.
 719. *repens*, Lin. Patridge Berry. Near Linden Park. Frequent.
3. **GALIUM**, Lin. Bedstraw.
 720. *Aparine*, Lin.
 721. *lanceolatum*, Torr.
 722. *circaezans*, Mx.
 723. *triflorum*, Lin.
 724. *tinctorium*, Lin.
 725. *Claytonia*, Mx. All the species of *Galium*, except *G. lanceolatum*, which is rare and found only at Linden Park, are more or less common in woods, fields, etc., on Belle Isle, and also in other places that are congenial to these plants.

FAMILY 21. CAPRIFOLIACEÆ. Honeysuckle Family.

1. **SAMBUCUS**, Lin. Elder.
 726. *Canadensis*, Lin. Belle Isle and other places. Common.
 727. *pubens*, Mx. With the other species, but rare.
2. **VIBURNUM**, Lin.
 728. *cassinoides*, Lin. Appalachian Tea. Common near Palmer Park.
 729. *lentago*, Lin. Nannyberry. Near Palmer Park. Frequent.
 730. *prunifolium*, Lin. Black Haw. Common on Belle Isle.
3. **TRIOSTEUM**, Lin.
 731. *perfoliatum*, Lin. Feverwort. Near Linden Park. Frequent.
4. **LONICERA**, Lin. Honeysuckle.
 732. *glaucescens*, Rydb.
 733. *dioica*, Lin. Both species are frequent near Palmer Park.
 734. *Xylosteum*, Lin. An escape from cultivation. Waste places. Rare.

FAMILY 22. DIPSACACEÆ. Teasel Family.

1. DIPSACUS, Lin.

735. fullonum, Lin. Wild Teasel. *D. sylvestris*, Huds. Common in fields and waste places, Belle, Isle, etc.

ORDER 7. CAMPANULALES.

FAMILY 23. CUCURBITACEÆ. Gourd Family.

1. CUCURBITA, Lin. Squash.

736. Pepo, Lin. Pumpkin.

2. CUCUMIS, Lin.

737. Melo, Lin. Muskmelon.

3. COLOCYNTHIS, Tourn, ex. Quer.

738. Citrullus, (Lin.) O. K. Watermelon. These three gourds are frequently found upon ballast grounds and in waste places.

FAMILY 24. CAMPANULACEÆ. Bellflower Family.

1. CAMPANULA, Lin.

739. aparinoides, Ph. Marsh Bellflower. Marshy grounds on Belle Isle. Common.

2. SPECULARIA, Heist., ex. Fabr.

740. perfoliata, (Lin.) A. D. C. Venus' Looking-glass. Frequent in thickets on Belle Isle.

FAMILY 25. LOBELIACEÆ. Lobelia Family.

1. LOBELIA, Lin.

741. cardinalis, Lin. Cardinal flower. Near Linden Park. Rare.
742. syphilitica, Lin. Blue flower. Moist woods on Belle Isle. Common.
743. forma albiflora, Britt. With the species. Common.
744. spicata, Lam. Near Linden Park. Frequent.
745. inflata, Lin. Indian Tobacco. Borders of woods on Belle Isle. Rare.

FAMILY 26. COMPOSITÆ. Compositæ Family.

1. VERNONIA, Schreb.

746. Drummondii, Shuttlew. Iron-weed. Common on Belle Isle and also on main land.

2. EUPATORIUM, Lin.

747. *purpureum*, Lin. Queen-of-the-Meadow. Vicinity of Linden Park. Rare.
748. *perfoliatum*, Lin. Boneset. Common in wet places on Belle Isle.

3. LACINARIA, Hill. Blazing Star.

749. *scariosa*, (Lin.) var. *corymbulosa*, Sheldon. Near Palmer Park. Frequent.

4. SOLIDAGO, Lin. Goldenrod.

750. *bicolor*, Lin. White Goldenrod. Linden Park. Common.
751. *speciosa*, Nutt. Near Linden Park. Rare.
752. *rugosa*, Mill. Near Linden Park and Palmer Park. Common.
753. *juncea*, Ait. var. *scabrella*, (T. & G.) A. Gr. With the last. Rare.
754. *serotina*, Ait. var. *gigantea*, (Ait.) A. Gr. With the last. Rare.
755. *Canadensis*, Lin. var. *scabriuscula*, Porter. On Belle Isle. Frequent.
756. *nemoralis*, Ait. Linden Park. Common.
757. *Riddellii*, Frank. Near Linden Park. Common.
758. *graminifolia*, (Lin.) Ell. Belle Isle, etc. Common.

5. ASTER, Lin.

759. *cordifolius*, Lin. Linden Park. Common.
760. *saggitifolius*, Willd. var. *urophyllus*, (Lindl.) Burgess. Belle Isle, Linden Park. Common.
761. *Novae-Angliae*, Lin. Belle Isle, etc. Common.
762. var. *roseus*, (Desf.) A. Gr. Near the Water Works. Rare.
763. *oblongifolius*, Nutt. (?) Near Linden Park. Frequent.
764. *amethystinus*, Nutt. Near the Water Works. Rare.
765. *puniceus*, Lin. var. *lucidulus*, A. Gr. On Belle Isle. Frequent.
766. var. *firmus*, (Ness.) T. & G. Near Palmer Park. Frequent.
767. *laevis*, Lin. Dry soils on Belle Isle and elsewhere. Common.
768. var. *laevigatis*, A. Gr. Belle Isle, etc. Frequent.
769. var. *amplifolius*, Porter. Linden Park. Common.
770. *Novae-Belgii*, Lin. (?) Linden Park. Frequent.
771. *salicifolius*, Lam. Belle Isle. Frequent.

772. *paniculatus*, Lam. Swampy shores of Belle Isle. Common.
 773. *var. bellidifolius*, (Willd.) Burgess. Belle Isle. Common.
 774. *Tradescanti*, Lin. Swampy shores of Belle Isle. Common.
 775. *ericoides*, Lin. Near Water Works. Rare.
 776. *var. platyphyllus*, T. & G. Near Water Works. Frequent.
 777. *lateriflorus*, Lin. Belle Isle. Common.
 778. *var. thrysoideus*, (T. & G.) Burgess. Belle Isle. Common.
 779. *var. grandis*, Porter. Belle Isle. Rare.
 780. *var. horizontalis*, (Desf.) Burgess. Belle Isle. Common.
 781. *var. hirsuticaulis*, (Lindl.) Porter. Belle Isle. Rare.
 782. *multiflorus*, Ait. Belle Isle and elsewhere. Common.
 783. *umbellata*, Mill. Near Linden Park, etc. Frequent.
6. *ERIGERON*, Lin. Fleabane.
784. *Philadelphicus*, Lin.
 785. *annuus*, (Lin.) Pers.
 786. *ramosus*, (Walt.) B. S. P.
 787. *Canadensis*, Lin.
 788. *divaricatus*, Mx.
- With the exception of the last named, which is rare, and found only at Linden Park, the species of *Erigeron* are more or less common in fields and along roadsides, etc., on Belle Isle and the main land also.
7. *ANTENNARIA*, Gaertn. Cudweed.
789. *neodioica*, Greene. *var. attenuata*, Fernald. Near Linden Park. Rare.
 790. *neglecta*, Greene. Common on Belle Isle and the main land also.
 791. *occidentalis*, Greene. Linden Park and Palmer Park. Frequent.
 792. *fallax*, Greene. Linden Park and Palmer Park. Frequent.
 793. *arnoglossa*, Greene. *var. ambigens*, Greene. Linden Park and Palmer Park. Frequent.
8. *GNAPHALIUM*, Lin.
794. *obtusifolium*, Lin. Life Everlasting. On Belle Isle. Common.
 795. *uliginosum*, Lin. On Belle Isle. Frequent.
 796. *purpureum*, Lin. At Linden Park, Rare.

9. SILPHIUM, Lin.

797. laciniatum, Lin. Rosinweed.

798. terebinthinaceum, Jacq.

Both species of Rosinweed are frequent near Linden Park.

10. AMBROSIA, Lin. Ragweed.

799. trifida, Lin. Waste places. Common.

800. artemisiaefolia, Lin. Common on Belle Isle.

11. XANTHIUM, Lin. Cocklebur.

801. spinosum, Lin. Waste places. Rare.

802. strumarium, Lin. Waste places, also Belle Isle. Frequent.

803. Canadense, Mill. Shores of Belle Isle. Common.

804. var. echinata, (Murr.) A. Gr. Linden Park. Frequent.

12. HELIOPSIS, Pers.

805. scabra, Dun. Dry grounds on Belle Isle. Rare.

13. RUDBECKIA, Lin.

806. hirta, Lin. Yellow Daisy. Fields, etc., on main land. Common.

14. HELIANTHUS, Lin. Sun-flower.

807. annuus, Lin. Waste grounds at Detroit. Common.

808. Maximiliani, Schrad. Waste grounds. Rare.

809. giganteus, Lin. Belle Isle, etc. Common.

810. hirsutus, Raf. On the main land. Rare.

15. COREOPSIS, Lin.

811. tinctoria, Nutt. Tickseed. A form with small heads and with rays yellow throughout. Waste places. Rare.

812. tripteris, Lin. Moist thickets near Palmer and Linden Parks. Common.

16. BIDENS, Lin. Bur marigold, Beggar ticks.

813. cernua, Lin. Common and variable. Belle Isle, etc.

814. var. Bidens, (Lin.) *Coreopsis*, *Bidens*, Lin. Sp. 908, 1753. *Bidens cernua*, var. *elliptica*, Wiegand. Belle Isle. Rare.

815. connata, Muhl. Belle Isle, etc. Common and variable: leaves undivided incisely-cut or-serrate (the type); or pinnately three divided with the terminal division petioled,

816. var. petiolata, (Nutt.) (*B. petiolata*, Nutt. Jour. Acad.

817. Philad. 7: 99); in. var. anomala, the awns are upwardly barbed.

818. comosa, (A. Gr.) Wiegand. Belle Isle and on the main land. Common.

819. *melanocarpa*, Wiegand. Belle Isle and on the main land. Common.
820. *frondosa*, Lin. Belle Isle, etc. Common.
821. *var. puberula*, Wiegand. On the main land. Common.
822. *trichosperma*, (Mx.) Britt. *var. tenuifolia*, (A. Gr.) Britt (?)
A peculiar form found on Belle Isle. It has the outer linear involucre bracts twice longer than the inner and equal to the rays in length,
823. *aristosa*, (Mx.) Britt. Belle Isle. Rare.
17. *HELLENIUM*, Lin.
824. *autumnale*, Lin. Sneezeweed. Common in woods on Belle Isle.
18. *ACHILLEA*, Lin.
825. *Millefolium*, Lin. Yarrow. Borders of woods on Belle Isle. Frequent.
19. *ANTHEMIS*, Lin.
826. *Cotula*, Lin. Mayweed. Waste places, ballast grounds, Belle Isle. Common.
20. *CHRYSANTHEMUM*, Lin.
827. *Leucanthemum*, Lin. Ox-eye-daisy. Fields at Linden Park, Belle Isle, etc. Common.
21. *TANACETUM*, Lin.
828. *vulgare*, Lin. Tansy. Waste places, etc. Frequent.
22. *ARTEMISIA*, Lin. Wormwood.
829. *annua*, Lin. Waste grounds. Common.
830. *biennis*, Willd. Belle Isle. Common.
831. *vulgaris*, Lin. Waste places. Frequent.
23. *ERECTHITES*, Raf.
832. *hieracifolia*, (L.) Raf. Fireweed. Marshy grounds on Belle Isle. Common.
24. *SENECIO*, Lin.
833. *aureus*, Lin. Life-root. In moist grounds on Belle Isle. Frequent.
834. *Balsamitæ*, Muhl. Near Palmer Park. Frequent.
835. *vulgaris*, Lin. Groundsel. Waste places. Rare.
25. *CALENDULA*, Lin.
836. *officinalis*, Lin. Fetid Marigold. Waste places. Rare.

26. ARCTIUM, Lin.
 837. minus, Schk. Burdock. Belle Isle, etc. Common.
27. CARDUUS, Lin. Thistle.
 838. lanceolatus, Lin. Bull Thistle. Fields on Belle Isle and main land. Rare.
 839. discolor, (Muhl.) Nutt. Field Thistle. Fields, etc. Frequent.
 840. arvensis, Lin. Robs. Canada Thistle. Belle Isle and main land. Common.
28. ONOPORDON, Lin.
 841. Acanthium, Lin. Scotch Thistle. Waste places. Rare.
29. CENTAUREA, Lin.
 842. Cyanus, Lin. Corn Flower. An escape from gardens into waste places. Not very frequent.
30. CICHORIUM, Lin.
 843. Intybus, Lin. Chicory. Waste places, Belle Isle, etc. Common.
 844. var. divaricatum, DC. Near Water Works. Frequent.
31. ADROPOGON, Neck.
 - 845 Virginicum, (Lin.) O. K. Goatsbeard. Near Linden Park. Common.
32. TARAXACUM, Hall.
 846. Taraxacum, (Lin.) Karst. Dandelion. Fields on Belle Isle, etc. Common.
33. CICERBITA, Wallr. (*Mulgedium*, Cass.)
 847. Floridana, (Lin.) Wallr. Borders of moist woods on Belle Isle. Rare.
 848. Canadensis, (Lin.) (*Sonchus Canadensis*, Lin. Sp. Pl. p 793, 1753) (exclude description.) On Belle Isle and other places. Common.
 849. var. integrifolia, (T. & G.) (*Mulgedium leucophaeum* var. *integrifolium*, T. & G. Flora II, 499, 1843.) Belle Isle and near Palmer Park. Rare.
34. SONCHUS, Lin.
 850. arvensis, Lin. Sow Thistle. Ballast grounds, etc. Frequent.
 851. oleraceus, Lin. Belle Isle, etc. Common in waste places.
 852. asper, Lin. All. Belle Isle, etc. Common in waste places.

35. *LACTUCA*, Lin. Lettuce.
853. *sativa*, Lin. Garden Lettuce. Occasionally a specimen of this species is found on the Island, also on the main land in waste places.
854. *Scariola*, Lin. Common in waste places, also Belle Isle.
855. *Canadensis*, Lin. Belle Isle and elsewhere. Common.
856. *hirsuta*, Muhl. Near Linden Park. Frequent.
857. *sagittifolia*, Ell. Belle Isle. Common along the shores.
858. *pulchella*, (Ph.) DC. Waste places. Rare.
36. *PRENANTHES*, Lin. Rattlesnake-root.
859. *altissimus*, Lin. Near Palmer Park. Frequent.
860. *albus*, Lin. Common on Belle Isle.
37. *HIERACIUM*, Lin.
861. *scabrum*, Mx. Hakweed. Linden Park. Frequent.



SCENES AT PALMER PARK.

Secretary's Report.

*To the Honorable, the Commissioners of Parks and
Boulevards :*

GENTLEMEN : I have the honor to submit herewith the annual financial statement for the past fiscal year, from July 1, 1899, to June 30, 1900, both days inclusive, showing cash balance in the city treasury at the close of business on June 30, as follows:

Park improvement fund,	-	-	\$149,567.15
Park and Boulevard fund,	-	-	4,682.63

Certified to by Deputy City Controller, as per his statement attached hereto.

The report also shows a list of the principal improvements and their cost ; a statement of the amount of bonds issued ; the estimates asked and amounts allowed since 1889, and also in tabulated form a complete list of expenditures of the park and boulevard system, in fact a summary to date as near as may be, the first money being appropriated in 1854 for a fence and walk around Grand Circus Parks.

Respectfully submitted,

M. P. HURLBUT,
Sec'y and Gen'l Manager.

June 30, 1900.

CITY CONTROLLER'S OFFICE,
DETROIT, June 30, 1900.

HON. M. P. HURLBUT,

Sec'y & Gen'l Mngr., Park and Boulevard Com., City.

DEAR SIR: I hereby certify that the cash balance to the credit of the park and boulevard fund at the close of business June 30, 1900, is..... \$4,682.63
and that the cash balance to the credit of the park improvement fund at the close of business June 30, 1900, is..... \$149,567.15

Respectfully,

HOWARD C. BECK,
Deputy Controller.

FINANCIAL STATEMENT.

JULY 1, 1899 TO JUNE 30, 1900.

RECEIPTS.

Boulevard Right of Way Fund.

Cash Balance, July 1, 1899.....	\$327 86
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Park and Boulevard Fund.

Cash Balance, July 1, 1899.....	353 03
Appropriation, 1899.....	\$140,117 00
Casino Privilege, Belle Isle	8,600 00
Sale of Desk and Chair	12 50
Sale of Horse Sling	22 00
Bicycle Privilege.....	657 31
Boating Privilege	300 00
Pony Privilege	325 00
Launch Privilege	3 83
Detroit Boat Club rent	1 00
Hauling for Fish Commission	16 60
Sale of Tub and use of Telephone....	35
" Stone	163 00
" Sewer Crock	136 95

Casino Privilege Palmer Park.....	\$229 63	
Phæton Receipts.....	8,937 61	
Bath-house Receipts.....	1,419 80	
Ferry License.....	605 00	
Boat Landing Permits.....	170 00	
Sale of Deer, Elk and Buffalo.....	364 00	
" Old Iron.....	151 35	
Inspection Permits.....	16 25	
Use of Steam Road Roller.....	186 00	
Uncalled for Checks.....	6 57	
Sale of Ice, Palmer Park.....	30 09	
" Plants.....	33 32	
" Horses.....	560 00	
" Fertilizer, etc.....	1 10	
Boulevard Sidewalk Assessm't Roll..	231 23	
Detroit Yacht Club Rent.....	1 00	
Soldiers' Monument Fund.....	100 00	
Sale of Old Harnesses.....	10 00	\$163,408 59
TOTAL.....		\$164,569 48

PARK IMPROVEMENT FUND.

Face of Bonds Sold.....	150,000 00	
TOTAL RECEIPTS.....		\$314,569 48

PARK AND BOULEVARD FUND.

GENERAL MAINTENANCE.

Administration.

Salaries.....	\$6,948 01	
Printing, Stationery, etc.....	1,251 89	
Office Rent, etc.....	1,164 86	
Incidentals.....	211 73	\$9,576 49
Telephones.....		132 23

Engineering Department.

Salaries.....	933 38	
Supplies.....	213 86	1,147 24

Greenhouse Department.

Floral, Planting, etc	\$7,189 64	
Stock, supplies	246 45	\$7,436 09

Tools and Implements.

Purchase	2,176 50	
Repairs	859 85	3,036 35

Steam Road Roller.

Rent, etc	1,016 82	
Repairs	125 38	
Supplies	30 01	1,172 21

Stone Crusher.

Rent, etc		261 60
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Barns, Horses and Vehicles.

General Maintenance	4,649 53	
Vehicles, Repairs	1,750 28	
Shoeing Horses	500 73	
Harness, Repairs	197 78	
Barn Supplies	368 82	
Forage	3,745 98	
City Barn, Rent, etc	681 64	11,894 76

Band Concerts.

Music		3,420 98
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Entertainment.

Park and Outdoor Art Association		447 72
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TOTAL		\$38,525 67
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GENERAL IMPROVEMENTS.**Nursery.**

Stock	518 61	
Labor	1,305 26	1,823 87

Cobble.

For general use		691 45
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Settees.

Purchase and Repair		94 55
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Horses.

Purchase	\$2,991 40
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Harnesses.

Purchase	574 75
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Labels for Trees.

Purchase	222 48
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TOTAL.....	\$6,398 50
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BELLE ISLE MAINTENANCE.

General	\$7,500 98	
Settees and Swings	330 07	
Signs and Rustic Work	198 16	
Flag and Staff	108 67	
Speeding Track	45 85	
Trees and Shrubs, Care of	1,679 44	
Materials and Supplies	492 22	
Telephone Cable	1,105 81	
Fuel	\$1,579 18	13,040 38

Buildings.

Casino	586 37	
Bath-house	478 56	
Skating Pavilion	175 33	
Boat House No. 2	260 35	
Barn	229 86	
Green House	182 97	
Ice House	154 43	
Pavilions	36 10	
Band Stand	7 30	
Buildings, General	990 44	
Furniture	313 45	
Inselruhe	832 13	\$4,247 29

Roads and Walks.

Roads	1,899 39	
Roads sprinkling	1,060 76	
Hitching Bays	23 10	
Walks	668 78	3,652 03

Docks and Bridges.

Maintenance, Docks	\$171 36	
Repairs	73 89	
Inselruhe	202 36	
Repairs to Bridges	1,058 97	\$1,506 58

Water System.

Repairs	450 20	
Filling Tanks and Fountains with Ice	481 35	
Cutting Ice	321 33	
Drinking Fountains, Repair	41 56	
Water Tanks, Repair	32 02	1,326 46

Lakes and Canals.

Cutting Weeds	154 94	
Cleaning, Canals	74 70	
" Beaches	142 29	
Skating Lake, Maintenance	386 77	
Lily Pond, Repair	122 01	880 71

Zoological Department.

Care of Animals	808 23	
Forage	1,836 97	
Repairs to Cages	160 81	2,806 01

Closets and Cesspools.

Care of	1,320 51	
Repairs	90 04	
Toilet Paper, etc.	73 56	1,484 11

Phaeton Service.

Maintenance	5,149 20	
Painting and Repairs.	1,124 00	6,273 20

Bath House Service.

Maintenance	1,324 04	
Suits, Supplies, etc.	196 41	1,520 45

TOTAL		\$36,737 22
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BELLE ISLE IMPROVEMENTS.

General	\$329 63	
Drainage.....	150 27	
Shelter Pavilion.....	4,517 09	
Bridge Approach, (B. I.).....	1,956 87	
Resurfacing Roads.....	3,245 88	
Foot Bridge No. 9.....	184 00	
Toilet, Casino....	678 66	
" Men's, near Loop Canal.....	702 71	
" at Horse Shelter.....	1,335 36	
Grounds at Shelter Pavilion.....	1,204 62	
Riprapping Lakes and Canals.....	558 42	
Roads and Walks, Construction.....	339 05	
Drinking Fountains.....	708 10	
Bridge No. 14.....	2,663 53	
Animal Cages.....	812 91	
Beller Dock.....	17 30	
Light House Dock.....	217 55	
Buffalo and Elk Paddock.....	1,652 39	
Sprinkling Pipe System.....	499 32	
Barn Stalls.....	489 70	
Trees, Planting.....	497 62	
Shut-off Gates.....	196 90	
New Green House	400 00	
Animals Purchased	176 25	\$23,534 13
TOTAL		\$23,534 13

BOULEVARD MAINTENANCE.

General	\$125 33	
Lawns.....	1,437 31	
Trees and Shrubs	465 47	
Floral.....	22 13	
Water System	341 26	
Road Maintenance.....	410 50	
Road Sprinkling.....	1,168 96	
Walks Repair.....	481 92	
Signs ..	105 45	
Road Repairs.....	1,707 88	6,266 21

Care Takers.

Wages	\$3,742 80	
TOTAL		\$10,009 01

BOULEVARD IMPROVEMENTS.

Lawns	\$876 80	
Walks, (intersections)	2,629 53	
Walks, (construction)	468 46	
Trees and Shrubs Purchase	150 25	
" " Planting	250 14	
General Improvement	41 77	
Roadway, Fort to Lafayette	674 47	
" Shady Lane to Porter	2,478 63	
" Viaduct	564 24	
" Intersections	2,330 49	
Viaduct planking	279 76	
Brick Intersection Porter St.	506 70	
Legal Fees, Kennedy Suit	25 00	
Subway, including Kennedy Claim ..	4,068 08	15,344 32
TOTAL		\$15,344 32

PALMER PARK MAINTENANCE.

General	\$2,837 26
Roads	60 09
Closets	13 00
Walks	14 20
Ice Tanks	6 40
Tools	150 13
Bridges	49 55
Forage	164 23
Trees	11 00
Floral	86 20
Water System	3 50
Casino	75 92
Vehicles	70 00

COMMISSIONERS OF PARKS AND BOULEVARDS

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Signs	\$29 75		
Ice Cutting.....	56 65		
Furniture	17 60		
Buildings	213 08		
Fuel	217 27		
Water Rates.....	250 00	4,325 83	
TOTAL.....			\$4,325 83

PALMER PARK AND PARKWAY IMPROVEMENTS

General	\$848 83		
Toilet Casino.....	455 85		
Fountains, Ice Water.....	179 04		
Parkway Imps.	1,071 60		
Water System	579 69		
Propagating House.....	1,541 46		
Cascade Walk	24 36		
Roads and Walks.....	596 56		
Cascade	141 92		
Root Cellar.....	35 65		
Casino Heating Plant	976 81		
Ice House, enlarged	110 03		
Barn Imp	10 72		
Lodge Imp.	130 93		
Log Cabin Imp.	8 00		
Fence ..	112 62		
Landscaping	18 00		
Swings.....	37 63		
Arboretum	165 96		
Trees	37 51	7,083 17	
TOTAL			7,083 17

CLARK PARK MAINTENANCE.

General	352 60		
Floral.....	26 38		
Roads.....	3 00		
Water System.....	64 50	446 48	
TOTAL.....			446 48

CLARK PARK IMPROVEMENTS.

General	\$862 56	
Lake.....	223 43	
Walks.....	211 62	
Drainage.....	1 65	
Trees.....	25 93	
Fountain.....	147 72	
Men's Toilet Building.....	2,685 60	
Women's " " Changed.....	535 45	
Swings.....	40 87	4,732 83
TOTAL		\$4,732 83

CITY PARKS MAINTENANCE.

Owen Park.

Floral		12 20
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Perrien Park.

General	100 60	
Floral.....	3 38	
Water System.....	32 50	
Walks.....	9 00	145 48

Grand Circus Park.

General	206 54	
Floral.....	154 31	
Water System.....	49 72	
Walks.....	4 50	415 07

Cass Park.

General	155 09	
Floral.....	113 53	
Water System.....	4 50	273 12

Stanton Park.

General	3 00	
Water System.....	5 65	8 65

Harmonie Park.

General	85 47	
Floral.....	95 06	180 53

Campau Park.

General	\$4 50	
Floral.....	15 59	
Water System	2 39	\$22 48

Cadillac Park.

General	27 21	
Floral.....	15 41	
Water System	8 10	50 72

West Park.

General		36 00
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Clinton Park.

General	47 12	
Floral.....	49 37	
Water System	11 00	107 49

Capitol Park.

General	22 10	
Floral.....	101 94	124 04

Washington Parkway.

General	103 43	
Floral.....	13 80	
Fountain.....	49 52	166 75

City Hall Lawn.

General	49 72	
Water System	10 81	
Floral.....	392 25	452 78

Elton Park.

Floral.....		10 07
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Crawford.

Floral.....		10 00
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Soldiers' Monument.

Floral.....		105 19
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Miscellaneous.

General Maintenance, City Parks.....	1,141	16	
Water System, " "	57	00	
Fountains, General.....	33	95	
Seetees and Signs	21	45	
Floral, General City Parks.....	15	00	
" Police Stations.....	10	51	1,279 07

Care Takers.

Wages	4,263	99	
TOTAL			7,663 63

CITY PARKS IMPROVEMENTS.**Owen Park.**

General Imps	1,065	03	
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Perrien Park.

General	266	88	
Walks	120	78	
Water System.....	10	39	398 05

Grand Circus Parks.

General	72	00	
Walks	244	40	
Trees and Shrubs.....	182	97	499 37

Cass Park.

General	36	58	
Trees.....	5	00	41 58

Harmonie Park.

General	150	00	
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Cadillac Park.

General	139	88	
Trees.....	41	27	181 15

West Park.

General	15	75	
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Capitol Park.

General	75	16	
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Washington Parkway,

General	\$482 89	
Walks.....	156 47	
Trees.....	41 26	\$680 62

Recreation Park.

Water System.....	227 11	
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Medbury Park.

General	25 00	
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Voigt Park.

General	292 10	
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City Hall Lawn.

Trees.....	10 00	
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Second Avenue Parkway.

General	159 57	
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Boston Parkway.

Water System.....	164 32	
General	254 65	418 97

Miscellaneous.

General Improvement City Parks	38 74	4,278 20
PARK AND BOULEVARD FUND		
TOTAL EXPENDITURES.....		\$159,078 99

BOULEVARD RIGHT OF WAY FUND.

Purchase of Real Estate	807 86	
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PARK IMPROVEMENT FUND.

Investigation Trip, Printing, etc.....	432 85	
	\$160,319 70	

Park and Boulevard Fund.

Cash Balance, June 30, 1900	4,682 63	
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Park Improvement Fund.

Cash Balance, June 30th, 1900	149,567 15	
Total, \$314,569 48		

RECAPITULATION.

	MAINTENANCE	IMPROVEMENTS.
Park and Boulevard Fund.		
General Maintenance and Improvements...	\$38,525 67	\$6,398 50
Belle Isle "	36,737 22	23,534 13
Boulevard "	10,009 01	15,344 32
Palmer Park "	4,325 83	7,083 17
Clark Park "	446 48	4,732 83
City Parks "	7,663 63	4,278 20
	<u>\$97,707 84</u>	<u>\$61,371 15</u>
Maintenance		97,707 84
Park and Boulevard Fund, Expenditure..		\$159,078 99
Boulevard Right-of-way Fund "		807 86
Park Improvement Fund "		432 85
TOTAL EXPENDITURES		\$160,319 70
Park and Boulevard Fund, Cash Balance,		4,682 63
Park Improvement Fund, Cash Balance,		149,567 15
		<u>\$314,569 48</u>

TABLES

SHOWING TOTAL COST OF GREENHOUSE DEPARTMENT, BARNs, HORSES,
AND VEHICLE DEPARTMENT, AND PURCHASE AND REPAIR
OF TOOLS AND IMPLEMENTS. .

Greenhouse Department.

Propagating and Planting on Belle Isle, etc.....	\$7,189 64
Stock Supplies.....	246 45
Floral Planting, Boulevard.....	22 13
" " Palmer Park.....	86 20
" " Clark Park.....	26 38

COMMISSIONERS OF PARKS AND BOULEVARDS

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Floral Planting, Owen Park.....	\$12 20
“ “ Perrien Park.....	3 38
“ “ Grand Circus Parks.....	154 31
“ “ Cass Park.....	113 53
“ “ Harmonie Park.....	95 06
“ “ Cadillac Park.....	15 41
“ “ Campau Park.....	15 59
“ “ Clinton Park.....	49 37
“ “ Capitol Park.....	101 94
“ “ Washington Parkway.....	13 80
“ “ City Hall Lawn.....	392 25
“ “ Elton Park.....	10 07
“ “ Crawford Park.....	10 00
“ “ Soldier's Monument.....	105 19
“ “ High School and Police Stations.....	25 51
	\$8,688 41

Barns, Horses, and Vehicle Department.

General Maintenance.....	\$4,649 53
Vehicles Repair.....	1,750 28
“ Palmer Park.....	70 00
Shoeing Horses.....	500 73
Harness Repairs.....	197 78
Barn Supplies.....	368 82
Forage, Belle Islé Barn.....	3,745 98
“ Rent, etc., City Barn.....	681 64
“ Palmer Park.....	164 23
Horses, Purchase.....	2,991 40
Harnesses, Purchase.....	574 75
Phaetons, Painting and Repair.....	1,124 00
	\$16,719 14

Tools and Implements - Purchase and Repair.

Purchase.....	2,176 50
Repair.....	859 85
Steam Roller, Rent and Repair.....	1,142 20
Stone Crusher, “ “.....	261 60
	4,440 15

PARK AND BOULEVARD SYSTEM.—(Expenditures.)

General Maintenance includes administration, tools, nursery, greenhouse, barns, horses and general improvements.
Compiled from City Records.

Year.	MAINTENANCE.				IMPROVEMENTS.				TOTAL.	GRAND TOTAL.
	GENERAL INC. GEN. IMP.	BELLE ISLE.	PALMER PARK.	CLARK PARK.	SMALL PARKS.	BOULEVARD.	BOULEVARD LIGHT OF NO.	MAIN TENANCE.		
1874										\$1,469.75
1875										167.96
1876										1,165.36
1877										1,016.36
1878										914.59
1879										354.45
1880										181.46
1881										145.74
1882										1,915.14
1883										2,462.65
1884										1,941.15
1885										2,391.69
1886										1,344.94
1887										2,646.55
1888										1,945.00
1889										1,433.12
1890										1,344.94
1891										2,351.98
1892										4,333.36
1893										3,345.99
1894										2,111.34
1895										3,509.83
1896										3,868.21
1897										6,024.06
1898										2,666.24
1899										2,180.04
1874										1,760.04
1875										2,161.76
1876										2,189.11
1877										1,606.58
1878										2,612.43
1879										3,163.50
1880										2,934.96
1881										2,227.75
1882										2,897.92
1883										5,215.92
1884										5,162.90
1885										10,216.17
1886										11,411.85
1887										4,370.67
1888										12,464.92
1889										19,464.92
1890										11,822.10
1891										12,998.76
1892										10,060.59
1893										18,195.74
1894										10,069.01
1895										7,663.63
1896										\$1,415.50
1897										900.43
1898										1,946.62
1899										18,043.39
1874										3,060.55
1875										13,519.89
1876										3,875.54
1877										18,917.61
1878										45,981.99
1879										21,000.34
1880										21,467.55
1881										25,646.86
1882										42,993.96
1883										43,793.80
1884										43,593.92
1885										31,079.12
1886										32,769.67
1887										48,922.16
1888										42,477.04
1889										37,500.83
1890										36,737.22
1891										\$1,415.50
1892										900.43
1893										1,946.62
1894										18,043.39
1895										3,060.55
1896										13,519.89
1897										3,875.54
1898										18,917.61
1899										45,981.99

On account of change in fiscal year the item in 1878 is for 17 months and in 1896 it is for 18 months.	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,410.96	\$2,4
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\$1,792.14 of the \$4,600.00 in 1899 was paid from city contingent fund.

Improvements from 1834 to 1899 are included under head of Maintenance.

First item is for purchase of the Park and was paid from the general city fund.

First item is for purchase of the Park.

Included in Maint. of Small Parks from 1890 to 1899.

On account of change in fiscal year the item in 1878 is for 17 months and in 1896 it is for 18 months.

\$2,180.04
\$1,415.50
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\$1,4

PARK AND BOULEVARD SYSTEM.

Bonds Issued and Estimates Asked and Allowed.

Total Bonds Issued for Belle Isle Park.....	\$915,000 00
“ “ “ “ Grand Boulevard.....	730,000 00
Total.....	<u>\$1,645,000 00</u>

ESTIMATES UNDER ACT OF MAY 8, 1889.

YEAR.	ASKED.	ALLOWED
1889.....	\$231,000 00.....	\$101,229 00
1890.....	181,000 00.....	72,400 00
1891.....	131,500 00.....	74,550 00
1892.....	133,650 00.....	100,000 00
1893.....	206,430 00.....	100,000 00
1894.....	359,954 00.....	168,200 00
1895.....	179,500 00.....	147,250 00
1896.....	169,250 00.....	137,150 00
1897.....	207,850 00.....	134,640 00
1898.....	164,760 00.....	113,640 00
1899.....	210,926 00.....	140,117 00
1900.....	428,661 00.....	173,502 00
	<u>\$2,604,481 00</u>	<u>\$1,462,678 00</u>

MISCELLANEOUS INFORMATION TO ANSWER THE MANY INQUIRIES MADE.

Belle Isle Park is 2 miles long.

" " " has $5\frac{1}{4}$ miles shore drive.

" " " has $14\frac{1}{4}$ miles of driveway.

" " " has $5\frac{1}{6}$ miles gravel walks.

" " " flag staff is $146\frac{1}{16}$ feet in height.

Park and Boulevard System has $15\frac{1}{2}$ miles of gravel walk.

" " " " has $38\frac{1}{16}$ miles of roadway.

PRINCIPAL IMPROVEMENTS.

Lakes.

Lake Takoma, Belle Isle Park, 1887.....	\$21,981 75
" " " " " deepened, 1892...	5,444 55 \$27,426 30
Lake Okonoka, Belle Isle Park, 1888-9.....	58,658 73
" Muskoday, " " " 1893.....	45,055 99
Lily Pond, " " " 1890.....	2,990 15

Canals.

Loop Canal, Belle Isle Park, 1883.....	11,182 30
Nashua " " " " 1890.....	37,741 97

Water Mains.

Water Mains, Belle Isle Park. 1894-5-6.....	29,623 52
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Docks.

Sheltered Ferry Dock, Belle Isle Park, 1894.....	12,520 65
Light House Dock, " " " 1890.....	2,677 72

Bridges.

Stone Bridge No. 1—Over North Inlet to Loop Canal, on Pleafure Place, Belle Isle, 1894.....	\$5,438 25
Steel Bridge No. 2—Over Loop Canal, near Muir Fountain, Belle Isle, 1892.....	5,962 53
Stone Bridge No. 3—Over Marsh Run, on Muse Road, Belle Isle, 1894.....	8,205 80
Stone Bridge No. 5—(Foot) ; over Marsh Run, Belle Isle, 1894.....	1,400 00
Steel Bridge No. 6—Over Loop Canal, on Central Avenue, Belle Isle, 1892.....	14,301 43
Stone Bridge No. 7—Over Loop Canal, South of Bridge No. 6, Belle Isle, 1892-3.....	5,852 72
Stone Bridge No. 8—Over outlet at S. W. corner of Belle Isle, 1894.....	5,462 34
Stone Bridge No. 9—(Foot) ; over outlet to Lake Takoma, Belle Isle, 1894-9.....	1,732 61
Steel Bridge No. 14—Over Nashua Canal, at Shelter Pavilion, Belle Isle, 1899-1900.....	3,465 80
Stone Bridge No. 19—Over South inlet to Lake Muskoday, Belle Isle, 1894.....	4,578 47
Stone Bridge No. 20—Over North Inlet to Lake Muskoday, Belle Isle, 1894.....	3,999 62
Stone Bridge No. 21—Over outlet to Lake Muskoday, 1894	3,559 77
Wooden Bridges Nos. 4, 10; 11, 12, 13, 15, 16, 17, 18 and 22 were built many years and are now worthless.	
Stone Bridge in Clark Park, 1893.....	609 60
Subway, Milan Arch, Boulevard, 1895-9.....	44,786 61

Buildings.

Casino, Belle Isle, 1886-7-8.....	19,066 45
Boat House, Belle Isle, 1887.....	5,587 28
Engine House, Pavilion and Earth Closets, Belle Isle, 1887.....	5,966 84
Green House, Belle Isle, 1888-9	4,479 89
Music Pavllion, “ “ 1890-1.....	2,545 30
Bath House, “ “ 1894.....	16,179 88
Horse Shelter (old market bldg.,) Belle Isle, 1894.....	3,110 06
Skating Pavilion, Belle Isle, 1893-4.....	8,415 40
Brick Barn, “ “ 1895.....	12,053 21

Buildings Continued.

Women's Toilet (brick) Belle Isle, 1895	\$1,085 49
" " (stone), " " 1896	2,208 56
Picnic Pavilion, near Yacht Club, Belle Isle, 1890.	1,635 72
Shelter Pavilion, " " 1899.	12,828 75
Police Station, (Park Board's share) " " 1892.	2,000 00
Women's Toilet, Clark Park, 1893	4,205 59
Men's " " " 1899-1900	2,295 00
Shelter Pavilion, " " 1895	1,672 00
Picnic Pavilion, Palmer Park, 1895	1,167 53
Casino, " " 1896-99	11,799 73

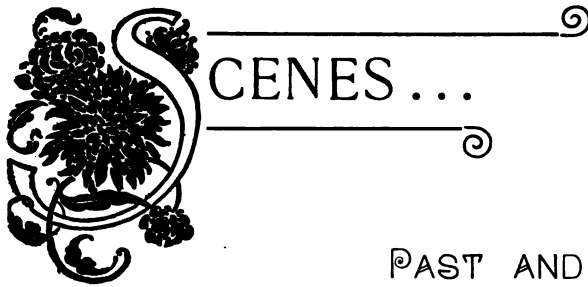
Miscellaneous.

Bear Den, Bell Isle, 1895-6	3,272 40
Animal Cages, Belle Isle, 1896-9	5,824 28
Speeding Track, " " 1890-1	3,015 85
Fountain, Capitol Park, 1896	2,351 83
" Stanton Park, 1896	670 00
Horse Drinking Troughs, Boulevard, 1896	1,606 38



PARK AND BOULEVARD SYSTEM.

NAMES	LOCATIONS.	ACREAGE.
Belle Isle—Island in Detroit River, (Survey 1899).....		707.000
Boston Park Way—Boston Boulevard.....		2.440
Chicago Park Way—Chicago Boulevard.....		2.440
Cadillac—Cadillac Sq., Campus Martius to Randolph.....		.970
Campau—Campau, Mullett and Clinton Sts.....		1.199
Capitol—Griswold, State and Rowland Sts.....		.510
Cass—Cass Ave., Ledyard and Bagg Sts.....		4.966
City Hall—Woodward Ave., Fort and Michigan.....		.550
Clark—Dix, Scotten, Howard and Clark Sts.....		24.731
Clinton—St. Antoine, Mullett and Raynor Sts.....		1.068
Crawford—Fifth and W. High Sts.....		.746
Elton—Fifth and Orchard Sts.....		.740
Grand Circus—Woodward, Adams, Park and Witherell.....		5.566
Harmonie—Randolph, Center and North Sts.....		.448
Macomb—17th, 18th and Rose Sts.....		.557
Medbury—Medbury Ave., John R. to Rivard St.....		3.440
Opera House—Woodward and Monroe Aves.....		.174
Owen—Jefferson Ave. and River.....		3.900
Palmer—Woodward Ave.....		140.410
Perrien—Chene, Grandy, Hancock and Warren Aves.....		5.180
Recreation—Brush, Brady to Alexandrine Ave.....		1.290
Second Ave. Park Way—Second Ave.....		1.110
Shakespeare Park Way—Shakespeare Esplanade.....		1.640
Schiller Park Way—Schiller Esplanade.....		1.640
Stanton—17th, 18th and Porter Sts.....		.695
Voigt—Schiller and Shakespeare Esplanades.....		9.601
West—State and Park Place.....		.744
Washington—Washington, Michigan to Park St.....		2.862
Boulevard.....		212.837
TOTAL (28 PARKS AND THE BOULEVARD).....		\$1,139.454
Boulevard Mileage.....		11.29



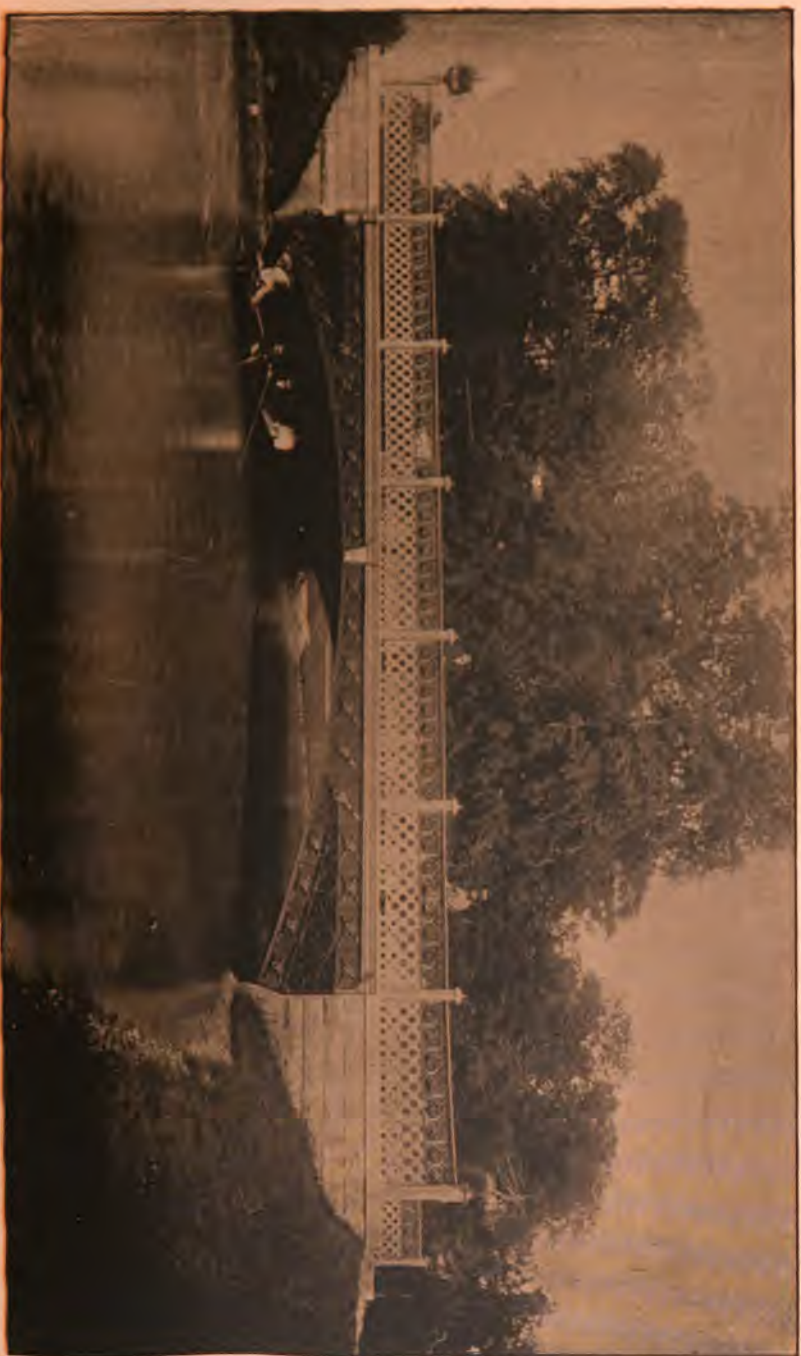
PAST AND
PRESENT

... ON ...

THE PARKS
AND BOULEVARDS



Stone Bridge No. 3, on Muse Road, over Marsh Run, Belle Isle Park.



Iron Bridge No. 2, over Loop Canal, connecting River Bank Road with Casino Way, Belle Isle Park.



Stone Bridge No. 1, over North Inlet to Loop Canal, on Pleasure Place, Belle Isle Park.



Stone Bridge No. 8, over Loop Canal, at South-west corner of Belle Isle Park.



Stone Bridge No. 16, over South inlet to Lake Muskoday, on Lakeside Drive, Belle Isle Park.



Bridges on Belle Isle Park.



Stone Foot Bridge No. 9, over outlet to Lake Takoma, Belle Isle Park.



Stone Foot Bridge No. 5, over Marsh Run, Belle Isle Park.



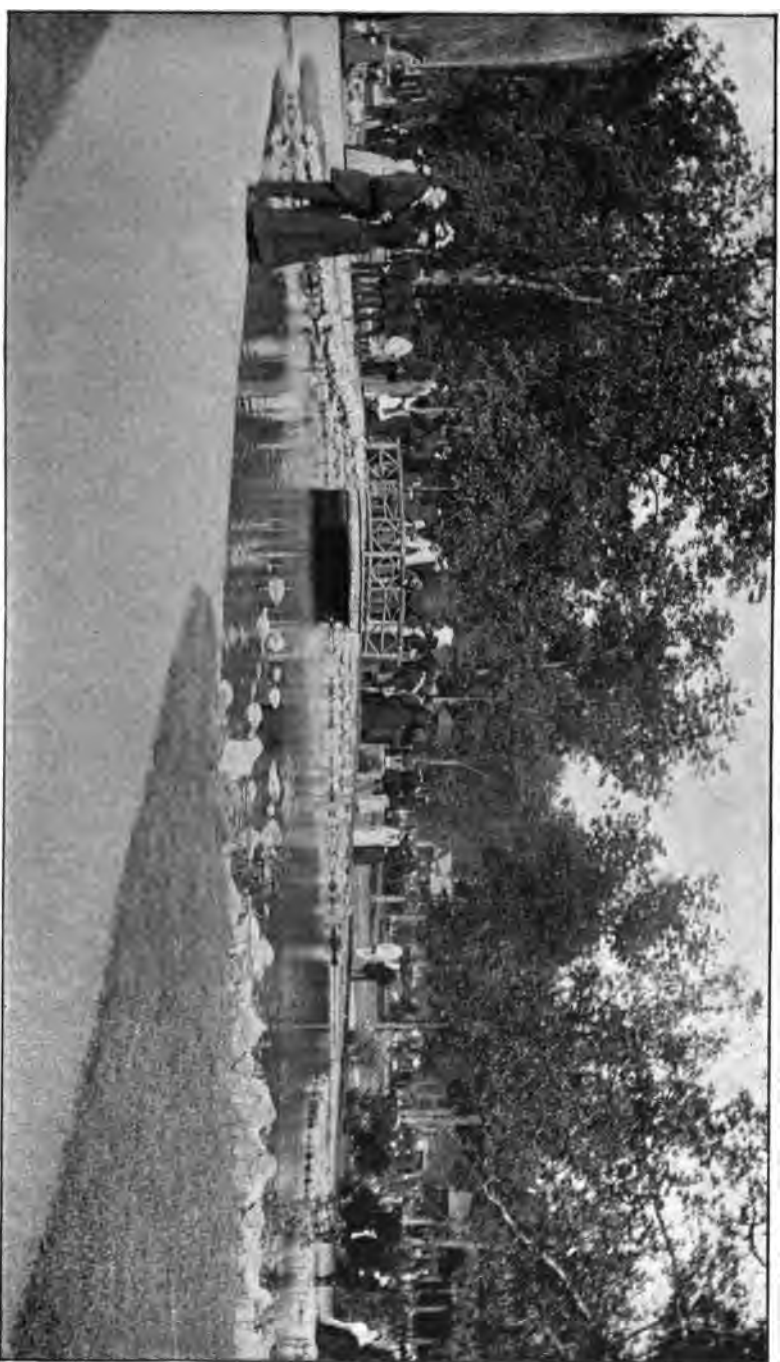
Summer Afternoon on Belle Isle Park—1889.



Rustic Bridge, replaced by Stone Bridge No. 9, Belle Isle Park.



Drinking Fountains, Belle Isle Park.



Rustic Bridge No. 4 and Lilly Pond, Belle Isle Park.



Casino, Belle Isle Park.

Rustic Bridge, replaced in 1892 by Iron Bridge No. 6,
over Loop Canal, connecting Central Ave. with Casino Way.



Band Concert Day on Belle Isle Park—1898.



Children at Play, Belle Isle Park.



View on Belle Isle Park.



Central Avenue, Belle Isle Park.



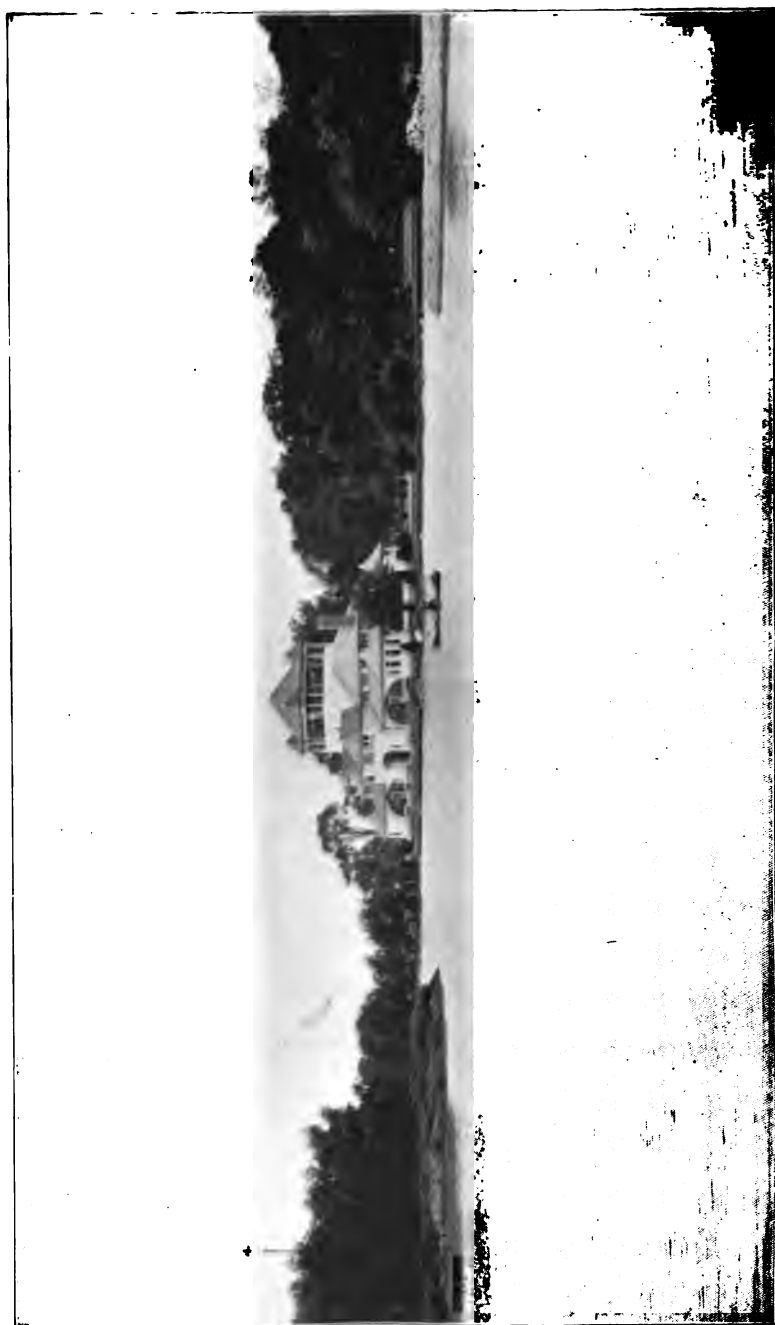
Barns, on Loiter Way, Belle Isle Park.



Lake Okonoka, South East End of Belle Isle Park.



The Strand—a Drive between Lake Okonoka and Detroit River—Belle Isle Park.



Skating Pavilion and Lake Takoma in Summer, Belle Isle Park.



Views, Belle Isle Park.



Pastime on Belle Isle Park.



Greenhouse, Belle Isle Park.



Drinking Fountains, Belle Isle Park.



Ice Water Drinking Places on Belle Isle Park.



Lavatories, Belle Isle Park.



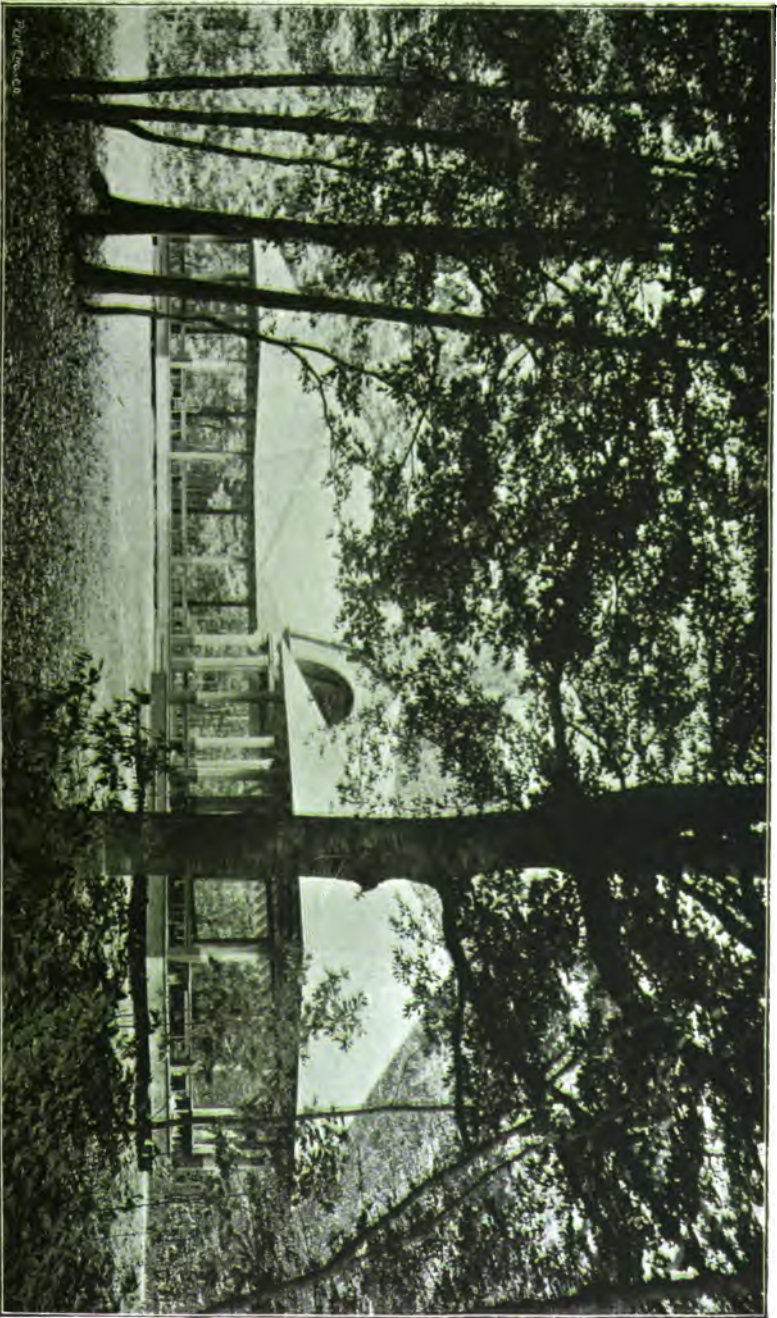
Transformer House.
Picnic Pavilion.

Belle Isle Park.

Rustic Tool House.
Bicycle Renting Pavilion.



Horse Shelter on Lakeside Drive at East End of Belle Isle Park.



Picnic Pavilion on Vista Avenue, Belle Isle Park.



Police Station, on Inselruhe Avenue, Belle Isle Park.



Barns, on Loiter Way, Belle Isle Park.



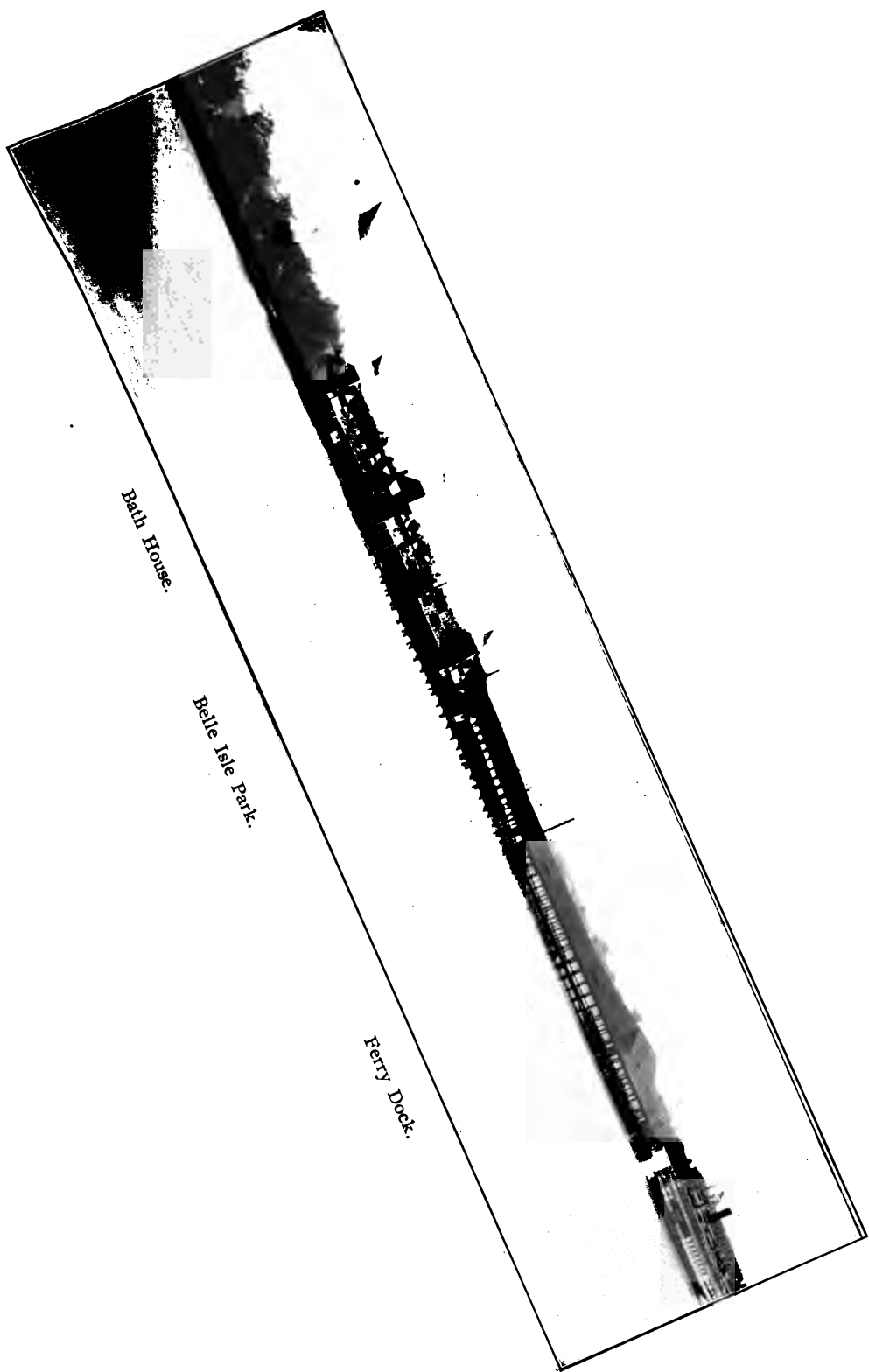
Interior of Log Cabin.



Interior of Log Cabin.



Skating Pavilion and Lake Takoma in Summer, Belle Isle Park.



Bath House.

Belle Isle Park.

Ferry Dock.



Lake Francis, Palmer Park.



Boat House, Belle Isle Park.



Views—Palmer Park.



Herd of Elk, Belle Isle Zoo.



Herd of Deer, Belle Isle Zoo.



Ostriches, Belle Isle Zoo.



Ostriches Hatched and Reared at Belle Isle Zoo.



Wolf Cages, Belle Isle Zoo.



Buffalo, Belle Isle Zoo.



Deer, Belle Isle Zoo.



Elk, Belle Isle Zoo.



Old Spanish Bell, Palmer Park.



Log Cabin, Palmer Park.



Interior of Log Cabin.



Interior of Log Cabin.



The Well, Palmer Park.



Lighthouse, Palmer Park.



Lake Francis, Palmer Park.



Views—Palmer Park.



Views—Palmer Park.



At Present.

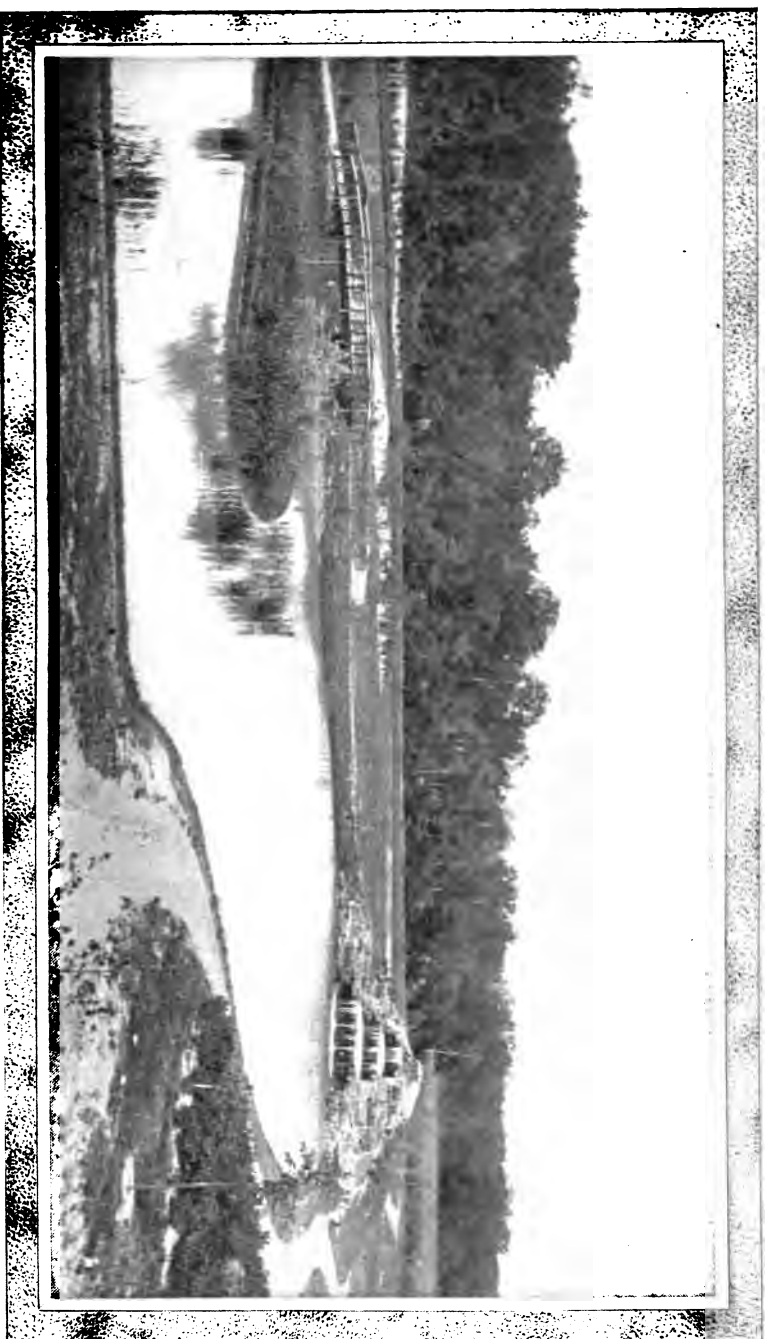
Barryard at Log Cabin, Palmer Park.

As It Was.

133



Casino, Palmer Park.



Lake Higino.

Palmer Park.

• Pontiac Cascade.



Hon. James A. Randall Turning the First Furrow on the Grand Boulevard,
August 10th, 1891.



Views on the Grand Boulevard.



Grand Boulevard.



Grand Boulevard.



Stone Foot Bridge, Clark Park.



Views on Clark Park.



Grand Circus Park.



Grand Circus Park.



Voigt Park.



City Hall Lawn.



Capitol Park Fountain.

1953

1954

1955

1956

1957

1958

1959

1960

1961



Grand Boulevard.



Grand Boulevard.



Stone Foot Bridge, Clark Park.



3 2044 029 622 701

NAB Detroit, Mich. Dept. of Parks
6327 and Boulevards.
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1899-1900 Annual report.

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